

ORDER NO. ARP1918

STEREO DOUBLE CASSETTE DECK AMPLIFIER 3

DC-Z73 HAS FOLLOWING VERSIONS:

Туре	Power requirement	Export destination
HE	AC220V, 240V (switchable)≭	European continent
HEWZ	AC220V, 240V (switchable)*	West Germany
YPW	AC240V only	Australia
SD	AC110V, 120V-127V, 220V, 240V (switchable)	Kingdom of SaudiArabia and General market

*: Change the Jumper wires of assembly boards.

- This manual is applicable to the DC-Z73/HE type.
- As to the other types, refer to applicable service manuals.
- As to the system composition, refer to the S-111 service manual (ARP1937).
- Ce manuel pour le service comprend les explications de réglage en français.
- Este manual de servicio trata del método ajuste escrito en español.

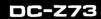
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YV JAN. 1990 Prined in japan.



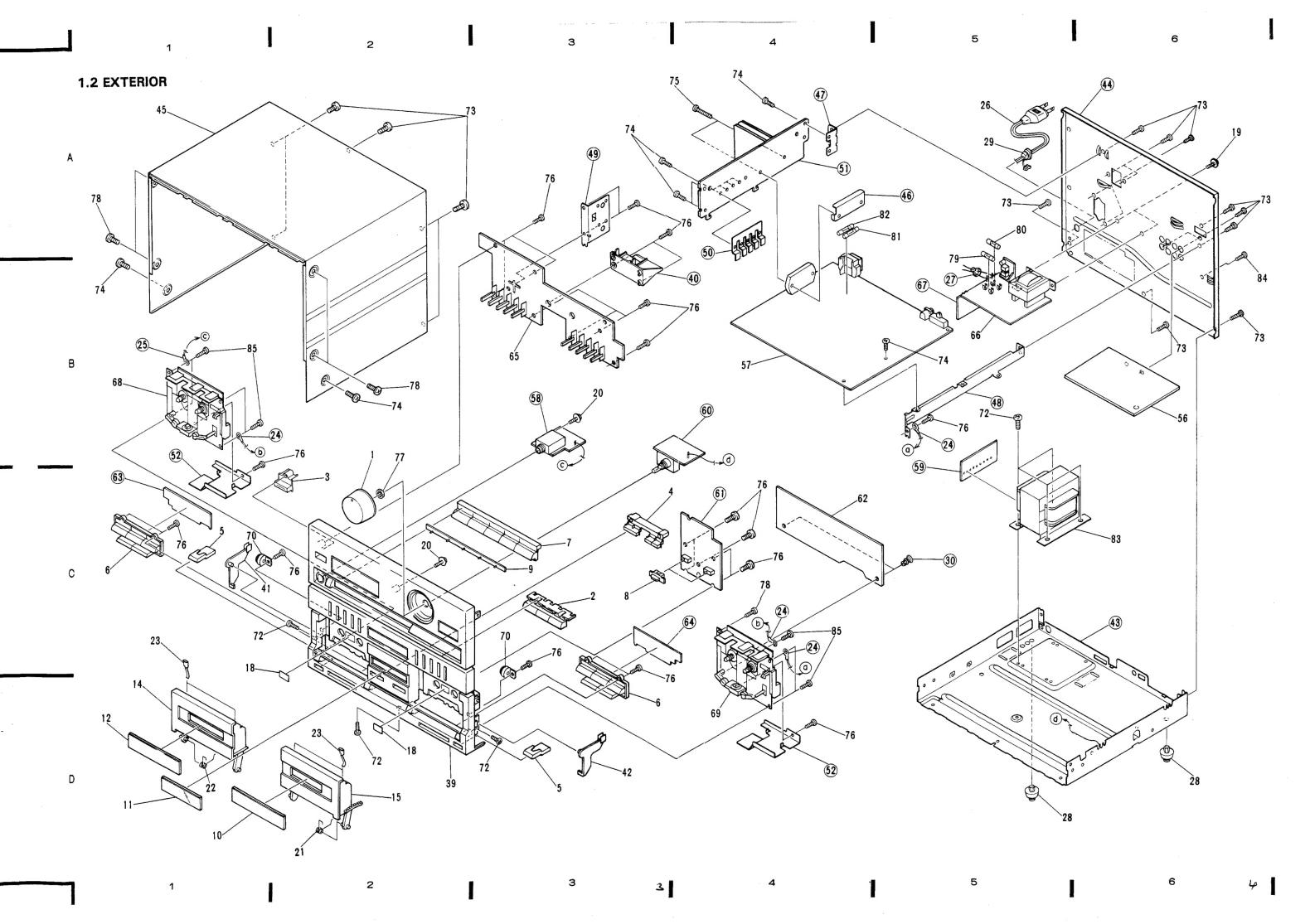
1. EXPLODED VIEWS, PACKIMG AND PARTS LIST

1.1 PARTS LIST OF EXTERIOR AND PACKING

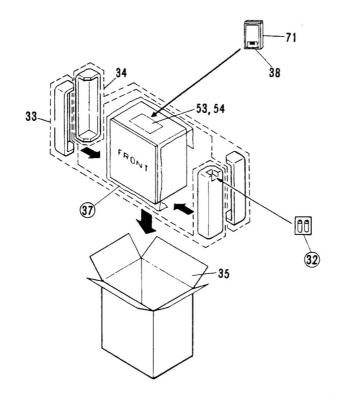
NOTES:

- Parts without part number cannot be supplied.
- The A mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designa-
- Parts marked by "®" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	1	Knob (VOLUME)	AAB1135		46	Plate	
	2	Button (REC)	AAD1668		47	Plate B	
	3	Button (POWER)	AAD1674		48	Plate	
	4	Button (COPY)	AAD1676		49	Plate A	
	5	Button (EJECT)	AAD1716		50	Plate	
	6	Button (DECK)	AAD1718		51	Heat sink	
	7	Button (FUNCTION)	AAD1724		52	Shield plate (MECHA)	
	8	Slide knob	AAE1128		53	Operating instructions	ARC1180
	9	Indicator lens	AAK1801		54	Operating instructions	ARE1144
	10	Decorative plate (DOOR R)	AAK1873		55	***	•••
	11	Decorative plate (DECK)	AAK1881		56	FUNCTION assembly	AWK1245
	12	Decorative plate (DOOR L)	AAK1882		57	AF assembly	AWZ2627
	13	•			58	HEAD PHONE assembly	
	14	Cassette door (L)	AAN1182		59	TRANS CONNECT assembly	
	15	Cassette door (R)	AAN1183		60	MAIN VR assembly	
	16	•••	•••		61	DECK CENTER assembly	
	17	***	***		62	DECK CTRL assembly	AWZ2635
	18	Label (PAPER)	AAX1301		63	DECK-1 SW assembly	
	19	Screw	ABA1084		64	DECK-2 SW assembly	
	20	Screw (STEEL)	ABA1095				
					65	AMP, GEQ CTRL assembly	AWZ2639
	21	Spring 1	ABH1062		66	POWER SUPPLY assembly	AWZ2239
	22	Spring 2	ABH1063		67	CONNECT assembly	
	23	Keep plate	ABK1011		68	Mecha unit 1	AWY1052
	24	Earth lead			69	Mecha unit 2	AWY1053
	25	Earth lead			70	Damper assembly	AXA1008
\triangle	26	AC power cord	ADG1049		71	Remote control unit	
	27	Nylon binder				(CU-DC019)	AXD1133
	28	Leg assembly	AEC-847		72	Screw	BBZ30P060FMC
\triangle	29	Strain relief	AEC-882		73	Screw	BBZ30P080FCU
	30	Nylon revet			74 75	Screw Screw	BBZ30P080FZK BBZ30P180FMC
	31	•••	•••				DDDOOT TOVI INC
	32	"AAA" DRY CELL			76	Screw	BPZ26P080FMC
	33	Front pad (L•R)	AHA1316		77	Nut	NK90FUC
	34	Rear pad (L·R)	AHA1317		78	Screw	VPZ30P080FZK
	35	Packing case	AHD1826	$\stackrel{\triangle}{\mathbb{A}}$	79	Fuse (T1.25A/250V,FU2001)	AEK-018
	36	•••	•••	\triangle	80	Fuse (T800mA/250V,FU2003)	AEK-031
	37	Sheet		Λ	81	Fuse (T1.25A/250V,FU2004)	AEK-018
	38	Battery cover	AZN1856	Ã	82	Fuse (T1.25A/250V,FU2005)	AEK-018
	39	Front panel	AMB1635	<u>^</u> <u>^</u>	83	Power transformer (T2001)	ATS1253
	40	P.C.B mold	12010100	2-1	84	Screw (EARTH)	
					85	Screw (EARTH)	VBZ35P080FMC VPZ30P080FMC
	41	Eject arm (L)	AMR2031				
	42	Eject arm (R)	AMR2032				
	43	Chassis					
	44	Rear panel	43TD1000				
	45	Bonnet case	ANE1220				



1.3 PACKING



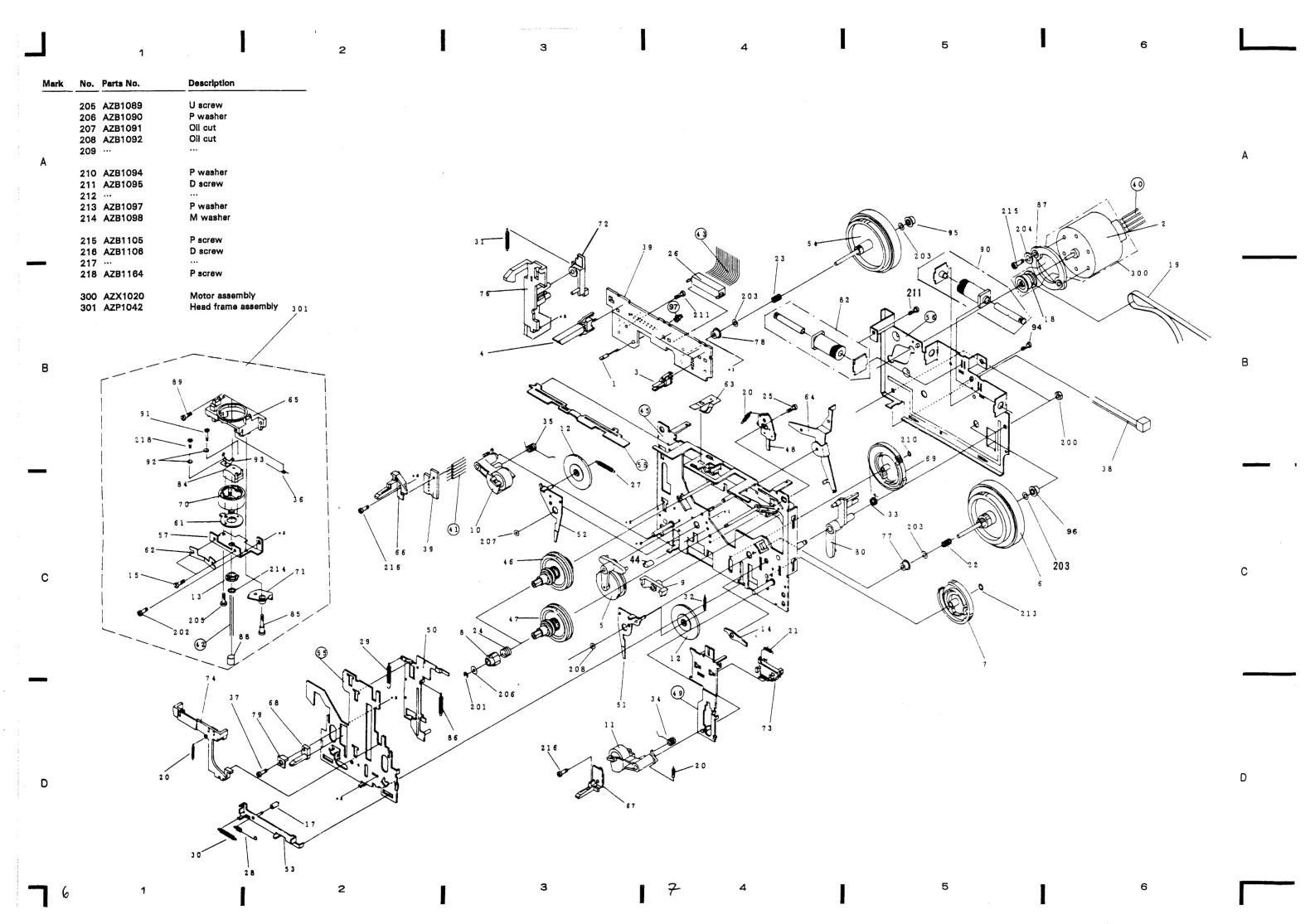
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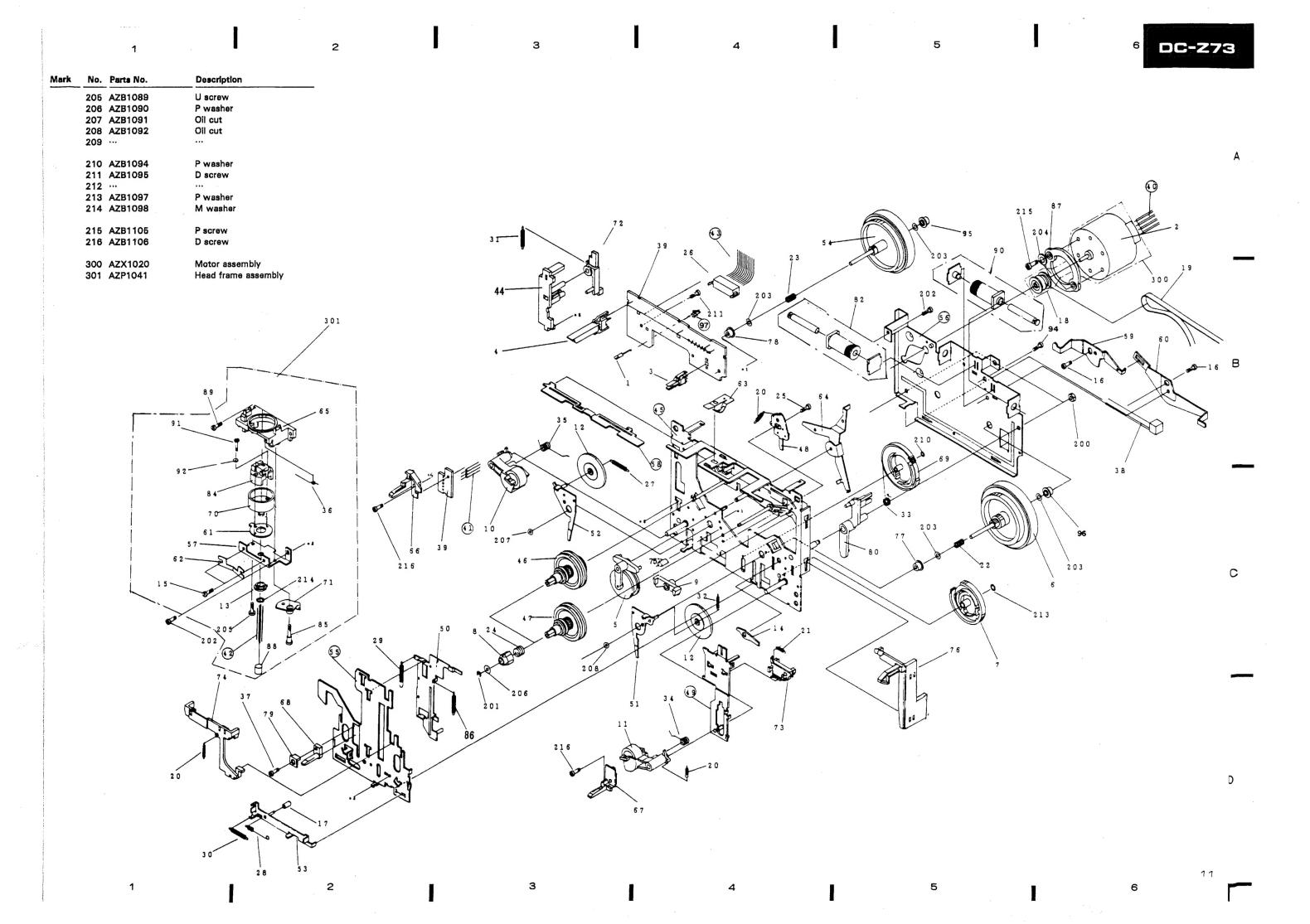
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1.4 MECHA UNIT 1 (AWY1052)

AZE1018	Mark	No.	Parts No.	Description	Mark	No	. Parts No.	Description
2 AZY1019 Motor 3 AZ\$1054 Leaf SW (KODE) 53 AZY1326 4 AZ\$1034 Leaf SW (KODE) 53 AZY1326 5 AZY1286 Dive arm sesembly 55 6 AZY1287 FW assembly A 6 AZY1288 Cam gear 57 AZY1328 Azimuth plate 8 AZY1288 Cam gear 57 AZY1328 Azimuth plate 9 AZY1871 FR arm 59		1	AZE1018	Hall IC		51	A7N1976	Gorana Backina accombine
3 A251094 Leef SW (KODE) 53 AZN1326 Head elever calking assembly 4 A251034 Leef SW (CrO2) 54 AZN1327 FW assembly 65 AZN1326 Drive arm assembly 65 AZN1328 PW assembly 162 AZN1288 FW assembly 163 AZN1288 FW assembly 163 AZN1288 FW AZN1288 FW AZN1288 FW AZN1288 FW AZN1288 FW AZN1289 FW AZN1971 FW AZN1972 FW AZN1972 FW AZN1972 FW AZN1972 FW AZN1972 FW AZN1973 FW AZN1974 FW AZN1973 FW AZN1974 FW AZN1974 FW AZN1975 FW AZ		2	AZX1019	Motor				
4 AZ51034 Leef SW (CrO2) 54 AZN1327 FW assembly 55 FW assembly FW assembly 56 FW assembly FW assembly AZN1288 Cam gear 67 AZN1328 Azlmuth plate SW arm AZM1289 Azlmuth plate SW arm SW arm <t< td=""><td></td><td>3</td><td>AZS1054</td><td>Leaf SW (MODE)</td><td></td><td></td><td></td><td></td></t<>		3	AZS1054	Leaf SW (MODE)				
6 AZN1286 Drive arm assembly 55 Head F.C.board 6 AZN1287 FW assembly A 56 FW AZN1288 Aznunge 57 AZN1328 Aznungh Intelligence Aznungh		4	AZS1034	Leaf SW (CrO2)				
6 AZN1287 FW assembly A 7 AZN1288 Cam gear 8 AZN1289 Real 9 AZN1971 FR arm 10 AZN1972 Pinch arm R assembly 11 AZN1973 Pinch arm R assembly 12 AZN1933 Gear 13 AZN1933 Gear 14 AZN1973 CUE arm 15 AZN1978 Head arm 16 AZN1978 Trigger arm 16 AZN1978 Head from Pinch arm R assembly 17 AZN1978 Trigger arm 18 AZN1978 Head from Pinch arm R assembly 18 AZN1978 Trigger arm 19 AZN1978 Trigger arm 19 AZN1978 Trigger arm 10 AZN1978 Trigger arm 10 AZN1978 Trigger arm 11 AZN1984 Collar C 10 AZN1988 Belt 11 AZN1988 Belt 12 AZN1336 Cassette guide R 13 AZN1298 Belt 14 AZN1298 Belt 15 AZN1336 Cassette guide R 16 AZN1337 Cassette guide R 17 AZN1980 Trigger arm 18 AZN1338 Cassette guide R 18 AZN1339 Spring 19 AZN1298 Belt 19 AZN1298 Belt 10 AZN1298 Belt 10 AZN1298 Belt 10 AZN1398 Trigger arm 10 AZN1298 Belt 11 AZN1300 FR isver spring 12 AZN1301 FWF spring 13 AZN1313 Spring 14 AZN1303 Spring 15 AZN1304 Head gear 16 AZN1305 Screw 17 AZN1306 Spring 18 AZN1304 Read polar 18 AZN1305 Cable holder 19 AZN1306 Spring 19 AZN1308 Spring 19 AZN1309 Spring 10 AZN1309 Spring 10 AZN1309 Spring 11 AZN1310 Spring 12 AZN1301 Spring 13 AZN1311 Spring 14 AZN1313 Spring 15 AZN1315 Spring 16 AZN1316 Spring 17 AZN1346 Cushlon 18 AZN1318 Spring 18 AZN1318 Spring 19 AZN1319 Spring 19 AZN1308 Spring 10 AZN1309 Spring 10 AZN1309 Spring 11 AZN1310 Spring 12 AZN1314 Spring 13 AZN1315 Spring 14 AZN1316 Spring 15 AZN1316 Spring 16 AZN1318 Spring 17 AZN1308 Spring 18 AZN1319 Spring 19 AZN1310 Spring 19 AZN1314 Spring 19 AZN1315 Spring 19 AZN1309 Spring 10 AZN1309 Spring 10 AZN1309 Spring 11 AZN1310 Spring 12 AZN1314 Spring 13 AZN1311 Spring 14 AZN1316 Spring 15 AZN1316 Spring 16 AZN1317 Spring 17 AZN1306 Spring 18 AZN1317 Spring 18 AZN1318 Spring 19 AZN1318 Spring 19 AZN1319 Spring 10 AZN1309 Spring 10 AZN1309 Spring 11 AZN1310 Spring 12 AZN1300 Spring 13 AZN1310 Spring 14 AZN1300 Spring 15 AZN1300 Spring 16 AZN1308 Spring 17 AZN1308 Spring 18 AZN1309 Spring 19 AZN1309 Spring 1		5	AZN1286	Drive arm assembly			ALIT 1027	
7 AZN1288 Cam gear 57 AZN1328 Azinturb plate 8 AZN1971 FR arm 58 SW arm 10 AZN1971 FR arm 59 11 AZN1972 Pinch arm L assembly 61 AZN1330 Head arm 11 AZN1973 Pinch arm R assembly 61 AZN1330 Head arm 12 AZN1293 Gear 62 AZN1331 Azimuth spring 13 AZN1293 Gear 62 AZN1332 Cassette stopper 14 AZN1793 CUE arm 64 AZN1978 Trigger arm 15 AZB1079 Screw 65 AZN1334 Cassette stopper 16 66 AZN1335 Cassette stopper 17 AZN1884 Collar C 67 AZN1336 Cassette guide L 18 AZN1238 Bet 89 AZN1337 Cassette guide R 19 AZN1238 Bet 89 AZN1338				•		55		Head P.C.Doard
8 AZN1288 Real SW arm S8 SW arm S9 S2 AZN1971 S7 AZN1972 Pinch arm S9 S8 SW arm S9 SW arm S9 S8 SW arm S9 S				_ · · · · · · · · · · · · · · · · · · ·				Plate (FLY WHEEL)
9 AZN1971 FR arm 10 AZN1973 Pinch arm L assembly 11 AZN1973 Pinch arm R assembly 12 AZN1293 Gar 13 AZN1294 H Gear 14 AZN1793 CUE arm 15 AZN1795 CUE arm 16 AZN1978 Trigger arm 17 AZN1983 CUE arm 18 AZN1798 H AZN1978 Trigger arm 18 AZN1294 CUE arm 19 AZN1336 Cassette studie R 10 AZN1336 Cassette guide R 17 AZN1384 Collar C 67 AZN1336 Cassette guide R 18 AZN1297 Motor pully 68 AZN1337 Cassette guide R 19 AZN1298 Belt 69 AZN1338 Cam gear 19 AZN1298 Spring 70 AZN1994 Head holder 19 AZN1299 Spring 70 AZN1994 Head holder 10 AZN1299 Spring 71 AZN1340 Head gear 11 AZN1300 FR lever spring 71 AZN1340 Head gear 12 AZN1301 FWF spring 72 AZN1980 Eject arm 2 13 AZN1302 FWR spring 73 AZN1342 Select lever 14 AZN1303 Spring 74 AZN1343 Brake 15 AZB1297 Scraw 75 10 AZN1308 Spring 75 AZN1348 Metal 17 AZN1309 Spring 78 AZN1349 Metal 18 AZN1307 Spring 79 AZN1348 Cushion 19 AZN1309 Spring 79 AZN1348 Cushion 20 AZN1309 Spring 79 AZN1348 Trigger arm 21 AZN1310 Spring 80 AZN1347 Metal 22 AZN1310 Spring 78 AZN1348 Trigger arm 23 AZN1310 Spring 78 AZN1348 Trigger arm 24 AZN1310 Spring 80 AZN1349 Trigger arm 25 AZN1310 Spring 81 26 AZN1311 Spring 81 AZN1349 Trigger arm 27 AZN1348 Cushion 28 AZN1311 Spring 81 AZN1347 Metal 28 AZN1310 Spring 80 AZN1348 Cushion 30 AZN1349 Spring 98 AZN1345 Solenoid 31 AZN1310 Spring 81 32 AZN1311 Spring 82 AZN1365 Solenoid 33 AZN1312 Spring 86 AZN1352 Spring 34 AZN1313 Spring 86 AZN1352 Spring 35 AZN1316 Spring 88 AZN1352 Spring 36 AZN1316 Spring 88 AZN1352 Spring 37 AZB1081 Sorew 38 AZN1316 Spring 88 AZN1352 Spring washer 48 AZN1319 Freel assembly 90 AZN1384 Capstan holder 48 AZN1319 Freel assembly 97 AZN1384 Capstan holder 48 AZN1319 Freel assembly 97 AZN1384 Capstan holder 48 AZN1321 Reverse arm calking assembly 200 AZB1084 Nut 48 AZN1319 Freel assembly 201 AZB1085 Ering 49 AZN1321 Reverse arm calking assembly 201 AZB1086 Ering 40 AZN1317 Pexasher						57	AZN1328	Azimuth plate
10 AZN1972 Pinch arm R assembly 80						58		SW arm
11 AZN1973		_		FR arm		59	•••	***
12 AZN1293 Gaer 62 AZN1331 Azimuth spring		10	AZN1972	Pinch arm L assembly		60	•••	•••
12 AZM1293 Gear 62 AZM1331 Azmuth spring 13 AZM1294 H Gear 63 AZM1332 Casette stopper 14 AZM1793 CUE arm 64 AZM1978 Trigger arm 15 AZB1078 Screw 65 AZM1335 Casette stopper 16 AZB1078 Screw 66 AZM1336 Casette guide 17 AZM1984 Collar C 67 AZM1336 Casette guide 18 AZM1297 Motor pully 68 AZM1337 Casette guide 19 AZM1298 Belt 69 AZM1337 Casette guide 19 AZM1298 Spring 70 AZM1338 Casette guide 10 AZM1399 Spring 70 AZM1340 Head holder 11 AZM1300 FR Iever spring 71 AZM1340 Head gear 12 AZM1301 FWF spring 72 AZM1340 Head gear 13 AZM1302 FWR spring 73 AZM1342 Select lever 14 AZM1303 Spring 74 AZM1343 Brake 15 AZM1305 Cable holder 76 AZM1346 Metal 12 AZM1306 Spring 77 AZM1348 Cushion 13 AZM1308 Spring 79 AZM1348 Cushion 14 AZM1309 Spring		11	AZN1973	Pinch arm R assembly		61	AZN1330	Head arm
13 AZN1294 H Gear		12	AZN1293					
14 AZN1793 CUE arm		13						
16						_		
16						_		
17			7251070	0.00		00	A2N 1334	nead trame
18						66	AZN1335	
18						67	AZN1336	Cassette guide R
20 AZN1299 Spring 70 AZN1394 Head holder						68	AZN1337	Cassette guide
AZN1299 Spring 70						69	AZN1338	Cam gear
22		20	AZN1299	Spring		70	AZN1994	
22 AZN1301 FWF spring 72 AZN1980 Eject arm 2 23 AZN1302 FWR spring 73 AZN1342 Select lever 24 AZN1303 Spring 74 AZN1343 Brake 25 AZB1297 Screw 75 26 AZN1306 Spring 77 AZN1348 Metal 27 AZN1306 Spring 77 AZN1347 Metal 28 AZN1307 Spring 79 AZN1348 Cushion 30 AZN1309 Spring 79 AZN1348 Cushion 31 AZN1310 Spring 81 32 AZN1311 Spring 81 33 AZN1312 Spring 83 34 AZN1313 Spring 84 AZP1022 P Head 35 AZN1314 Spring 86 AZN1352 Spring		21	AZN1300	FR lever spring		71	A7N1240	Hand over
23		22	AZN1301					
24								•
25 AZB1297 Screw 75								
26 AZN1305 Cable holder 76 AZN1381 Ratch lever L 27 AZN1308 Spring 77 AZN1348 Metal 28 AZN1307 Spring 78 AZN1348 Cushlon 30 AZN1309 Spring 80 AZN1349 Trigger arm 31 AZN1310 Spring 81 32 AZN1311 Spring 81 33 AZN1312 Spring 82 AZS1086 Solenoid 34 AZN1313 Spring 83 35 AZN1314 Spring 84 AZP1022 P Head 36 AZN1314 Spring 85 AZB1099 Screw 37 AZB1081 Sqrew 86 AZN1362 Spring 38 AZN1315 Spring 39 AZN1316 Nylon band 87 AZN1304 Spacer 39 AZN1318 Nylon band 88 AZN1470 Tube 40 Jumper wire 90 AZS1087 Solenoid 41 Wire assembly 91 AZB1101 Screw 42 Lead wire 92 AZB1102 Spring washer 43 AZN1468 Tube 94 AZB1298 Screw 46 AZN1319 R reei assembly 95 AZN1833 Capstan holder 47 AZN1320 F reei assembly 97 Holder 48 AZN1321 Reverse arm calking assembly 201 AZB1085 E ring 50 AZN1975 PLAY lever calking assembly 201 AZB1085 E ring 50 AZN1975 PLAY lever calking assembly 201 AZB1086 E ring 50 AZN1975 PLAY lever calking assembly 201 AZB1086 E ring 50 AZN1975 PLAY lever calking assembly 202 AZB1086 D screw 50 AZB1081 P vasher								
AZN1306 Spring 77			ALDILOT	50.64		75	***	•••
28 AZN1307 Spring 77 AZN134B Metal 29 AZN1308 Spring 79 AZN134B Cushion 30 AZN1309 Spring 80 AZN134B Cushion 31 AZN1310 Spring 81 32 AZN1311 Spring 82 AZS1086 Solenoid 33 AZN1312 Spring 83 34 AZN1313 Spring 83 35 AZN1314 Spring 84 AZP1022 P Head 36 AZN1314 Spring 86 AZN1309 Screw 36 AZN1315 Spring 86 AZN1304 Spacer 37 AZB1081 Screw 87 AZN1304 Spacer 38 AZN1316 Nylon band 87 AZN1304 Spacer 39 AZN1995 P.C.board 88 AZN1470 Tube <						76	AZN1981	Ratch lever L
AZN1308						77	AZN1348	Metal
29 AZN1308 Spring 79 AZN1348 Cushion 30 AZN1309 Spring 80 AZN1349 Trigger arm 31 AZN1310 Spring 81 32 AZN1311 Spring 82 AZS1085 Solenoid 33 AZN1312 Spring 83 AZN1313 Spring 84 AZP1022 P Head 35 AZB1099 Screw 36 AZN1314 Spring 86 AZN1304 Spacer Spring 37 AZB1081 Sorew 86 AZN1304 Spacer Spring 38 AZN1316 Nyion band 87 AZN1304 Spacer Tube 39 AZB1100 Screw 39 AZB1100 Screw 30 AZB1081 Surew 30 AZB1100 Screw 30 AZB1087 Solenoid 31 AZN1995 P.C.board 89 AZB1100 Screw 30 AZB1087 Solenoid 31 AZN1468 Tube 91 AZB1101 Screw 32 AZB102 Spring weather 32 AZB1081 Screw 33 AZN1471 Head spring 34 AZB1298 Screw 34 AZB1298 Screw 35 AZN14319 Reverse arm calking assembly 36 AZN1831 Capstan holder 47 AZN1320 F real assembly 96 AZN1834 Capstan holder 48 AZN1321 Reverse arm calking assembly 200 AZB1084 Nut 49 FR lever assembly 201 AZB1085 E ring 50 AZN1975 PLAY lever calking assembly 202 AZB1085 E ring 50 AZN1975 PLAY lever calking assembly 202 AZB1085 E ring 50 AZN1975 P.AY lever calking assembly 202 AZB1085 E ring 50 AZN1975 P.AY lever calking assembly 202 AZB1085 E ring 50 AZN1975 P.AY lever calking assembly 202 AZB1085 E ring 50 AZN1975 P.AY lever calking assembly 202 AZB1085 E ring 50 AZN1975 P.AY lever calking assembly 202 AZB1085 E ring 50 AZN1975 P.AY lever calking assembly 202 AZB1085 E ring 50 AZN1975 P.AY lever calking assembly 202 AZB1085 E ring 50 AZN1975 P.AY lever calking assembly 202 AZB1085 P.AY lever calking assembly 202 AZB1021 P.AY leve						78	AZN1347	Metal
AZN1309 Spring		29	AZN1308	Spring		79		
32 AZN1311 Spring		30	AZN1309	Spring		80	AZN1349	Trigger arm
32 AZN1311 Spring 33 AZN1312 Spring 34 AZN1313 Spring 35 AZN1314 Spring 36 AZN1314 Spring 37 AZB1081 Sorew 38 AZN1316 Nylon band 39 AZN1316 Nylon band 39 AZN1995 P.C.board 40 Jumper wire 40 Jumper wire 40 Jumper wire 41 Wire assembly 42 Lead wire 43 Lead wire 44 AZN1468 Tube 45 Mecha P.C.board calking 46 AZN1319 R reel assembly 47 AZN1320 F reel assembly 48 AZN1321 Reverse arm calking assembly 49 FR lever assembly 40 AZN1975 PLAY lever calking assembly 41 AZN1976 P.C.board calking assembly 42 AZN1976 P.C.board calking assembly 43 AZN1834 Capstan holder 44 AZN1321 Reverse arm calking assembly 45 PLAY lever calking assembly 46 AZN1976 PLAY lever calking assembly 47 AZN1976 PLAY lever calking assembly 48 AZN1976 PLAY lever calking assembly 49 FR lever assembly 50 AZN1976 PLAY lever calking assembly 50 AZN1976 PLAY lever calking assembly 50 AZN1976 PLAY lever calking assembly 50 AZN1977 PWasher		31	AZN1310	Spring				
Spring		32	AZN1311	Spring				
AZN1314 Spring		33	AZN1312	Spring				
Spring		34	AZN1313	Spring				
36 AZN1315 Spring 86 AZN1352 Spring 37 AZB1081 Sorew 87 AZN1304 Spacer 38 AZN1316 Nyion band 87 AZN1304 Spacer 39 AZN1995 P.C.board 88 AZN1470 Tube 40 Jumper wire 89 AZB1100 Screw 40 Jumper wire 90 AZS1087 Solenold 41 Wire assembly 91 AZB1101 Screw 42 Lead wire 92 AZB1102 Spring washer 43 Lead wire 93 AZN1471 Head spring 44 AZN1468 Tube 94 AZB1298 Screw 45 Mecha P.C.board calking 95 AZN1833 Capstan holder 46 AZN1319 R reel assembly 97 Holder 47 AZN1320 F reel assembly 200 AZB1084 Nut 49 FR lever assembly 201 AZB1		35	AZN1314	Spring		_		
37 AZB1081 Screw 86 AZN1352 Spring						85	AZB1099	Screw
Spacer S		-				86	AZN1352	Spring
AZN1995						87	AZN1304	
AZN1395						88		•
## Some state			AZN1995					
42		40		Jumper wire				
Lead wire		41		Wire assembly		Q1	A791101	Serem
43		42		Lead wire				
44 AZN1468 Tube 94 AZB1298 Screw 45 Mecha P.C.board calking 95 AZN1833 Capstan holder 46 AZN1319 R real assembly 96 AZN1834 Capstan holder 47 AZN1320 F real assembly 97 Holder 48 AZN1321 Reverse arm calking assembly 200 AZB1084 Nut 49 FR lever assembly 201 AZB1085 E ring 50 AZN1975 PLAY lever calking assembly 202 AZB1086 D screw 203 AZB1121 P washer				Lead wire				
Mecha P.C.board calking 95 AZN1833 Capstan holder 46 AZN1319 R real assembly 96 AZN1834 Capstan holder 47 AZN1320 F real assembly 97 Holder 48 AZN1321 Reverse arm calking assembly 200 AZB1084 Nut 49 FR lever assembly 201 AZB1085 E ring 50 AZN1975 PLAY lever calking assembly 202 AZB1086 D screw 203 AZB1121 P washer		44	AZN1468	Tube				•
assembly 96 AZN1834 Capstan holder 46 AZN1319 R reel assembly 97 Holder 47 AZN1320 F reel assembly 48 AZN1321 Reverse arm calking assembly 200 AZB1084 Nut 49 FR lever assembly 201 AZB1085 E ring 50 AZN1975 PLAY lever calking assembly 202 AZB1086 D screw 203 AZB1121 P washer				Mecha P.C.board calking				
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47 AZN1320 F reel assembly 48 AZN1321 Reverse arm calking assembly 200 AZB1084 Nut 49 FR lever assembly 201 AZB1085 E ring 50 AZN1975 PLAY lever calking assembly 202 AZB1086 D screw 203 AZB1121 P washer		AR	A7N1319	R real secondly			AZN1834	
48 AZN1321 Reverse arm calking assembly 200 AZB1084 Nut 49 FR lever assembly 201 AZB1085 E ring 50 AZN1975 PLAY lever calking assembly 202 AZB1086 D screw 203 AZB1121 P washer				· · · · · · · · · · · · · · · · · · ·		97		Holder
49 FR lever assembly 201 AZB1085 E ring 50 AZN1975 PLAY lever calking assembly 202 AZB1086 D screw 203 AZB1121 P washer				The state of the s				
50 AZN1975 PLAY lever calking assembly 202 AZB1086 D screw 203 AZB1121 P washer			ALIN 1921					Nut
203 AZB1121 P washer			A7N1075	•				E ring
		OU.	A41118/0	rum i lever calking assembly				D screw
204 AZB1087 N washer								P washer
						204	AZB1087	N washer





1.5 MECHA UNIT 2 (AWY1053)

ark	No.	Parts No.	Description	Mark	No.	Parts No.	Description
	1	AZE1018	Haii IC		51	AZN1976	Gear arm R
	2	AZX1019	Motor		52	AZN1977	Gear arm L
	3	AZS1054	Leaf SW (MODE)		53	AZN1326	Head lever calking assembly
	4	AZS1034	Leaf SW (CrO2)		54	AZN1327	FW assembly
	5	AZN1286	Drive arm assembly		55		Head P.C.board
	6	AZN1287	FW assembly A		56		Plate (FLY WHEEL)
	7	AZN1288	Cam gear		57	AZN1328	Azimuth plate
	8	AZN1289	Reel		58	AZITIOZO	SW arm
	9		FR arm			A7814000	
	-	AZN1971 AZN1972			59	AZN1988	Eject arm L
1	10	AZN1972	Pinch arm L assembly		60	AZN1989	Eject arm R
	11	AZN1973	Pinch arm R assembly		61	AZN1330	Head arm
	12	AZN1293	Gear		62	AZN1331	Azimuth spring
	13	AZN1294	H Gear		63	AZN1332	Cassette stopper
	14	AZN1793	CUE arm		64	AZN1978	Trigger arm
	15	AZB1079	Screw		65	AZN1334	Head frame
	16	AZB1080	Screw		66	AZN1335	Cassette guide L
	17	AZN1984	Collar C		67	AZN1336	Cassette gulde R
	18	AZN1297	Motor pully		68	AZN1337	Cassette guide
	19	AZN1298	Belt		69	AZN1338	Cam gear
	20	AZN1299	Spring		70	AZN1979	Head holder
	21	AZN1300	FR lever spring		71	AZN1340	Head gear
	22	AZN1301	FWF spring		72	AZN1980	Eject arm 2
	23	AZN1302	FWR spring		73	AZN1342	Select lever
	24	AZN1303	Spring		74	AZN1343	Brake
	25	AZB1080	Screw		75	AZN1468	Tube
	26	AZN1305	Cable holder		76	AZN1985	Ratch lever R
	27	AZN1306	Spring		77	AZN1346	Metal
	28	AZN1307	. •		78	AZN1347	Metal
	29	AZN1308	Spring		79	AZN1348	Cushion
	30	AZN1308	Spring Spring		80	AZN1349	Trigger arm
	00	ALITIOO	Spring		00	72111040	rnggor arm
	31	AZN1310	Spring		81	 AZS1085	 Solenoid
	32	AZN1311	Spring		82		*
	33	AZN1312	Spring		83		 DOM:
	34	AZN1313	Spring		84	AZP1014	R/P Head
	35	AZN1314	Spring		85	AZB1099	Screw
		AZN1315	Spring		86	AZN1352	Spring
		AZB1081	Screw		87	AZN1304	Spacer
	38	AZN1316	Nylon band		88	AZN1470	Tube
	39	AZN1983	P.C.board		89	AZB1100	Screw
	40		Jumper wire		90	AZS1087	Solenoid
	41		Wire assembly		91	AZB1101	Screw
	42		Lead wire		92	AZB1102	Washer
	43		Lead wire		93		***
	44	AZN1344	Eject lever L			AZB1298	Screw
	45		Mecha P.C.board calking assembly			AZN1833	Capstan holder
	46	AZN1319	R rael assembly			AZN1834	Capstan holder
		AZN1319 AZN1320	R reel assembly		97		Holder
			F reel assembly			.===	
		AZN1321	Reverse arm calking assembly			AZB1084	Nut
	49	A7814075	FR lever assembly			AZB1085	E ring
	50	AZN1975	PLAY lever calking assembly			AZB1086	D screw
						AZB1121	P washer
					204	AZB1087	N washer

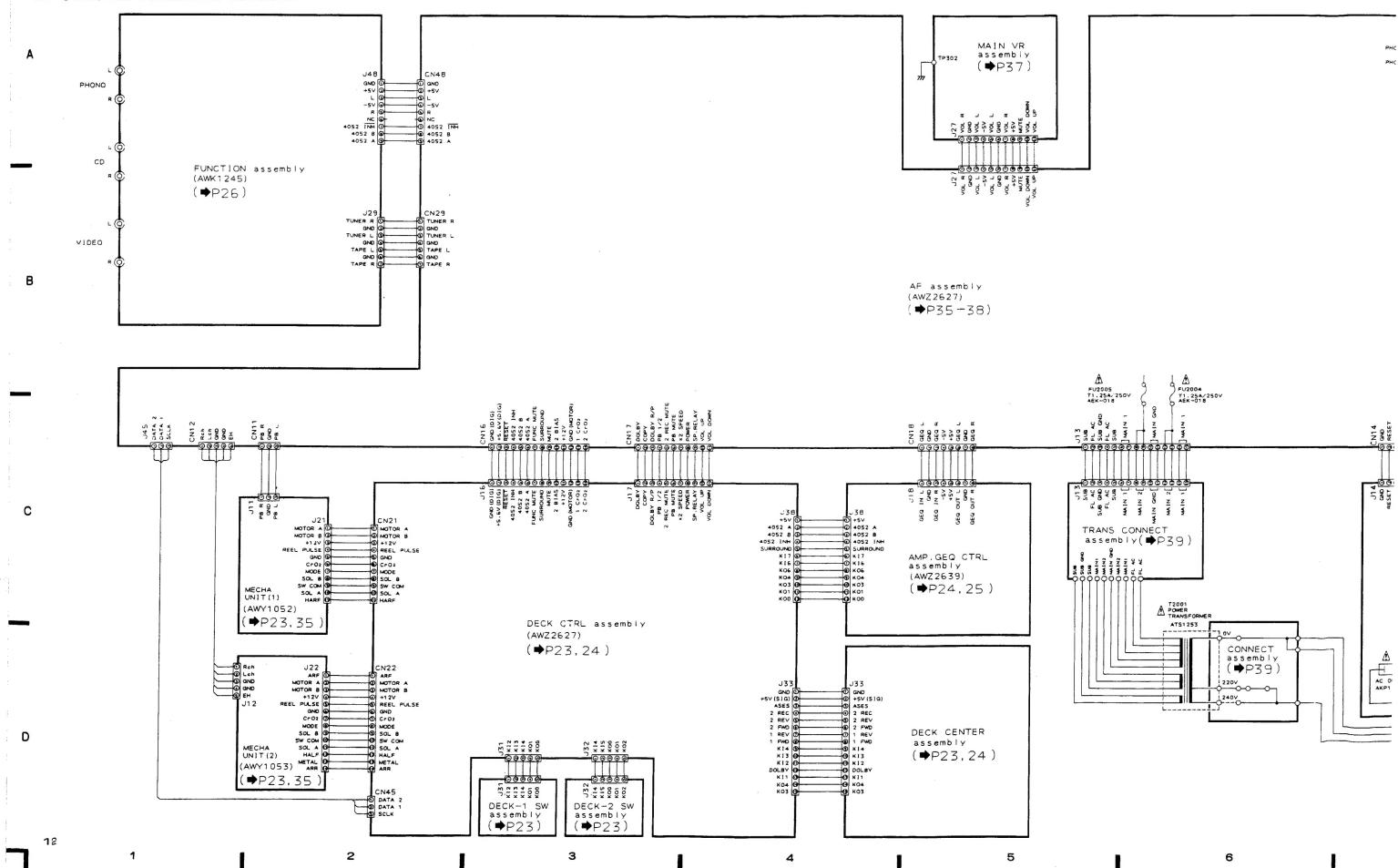
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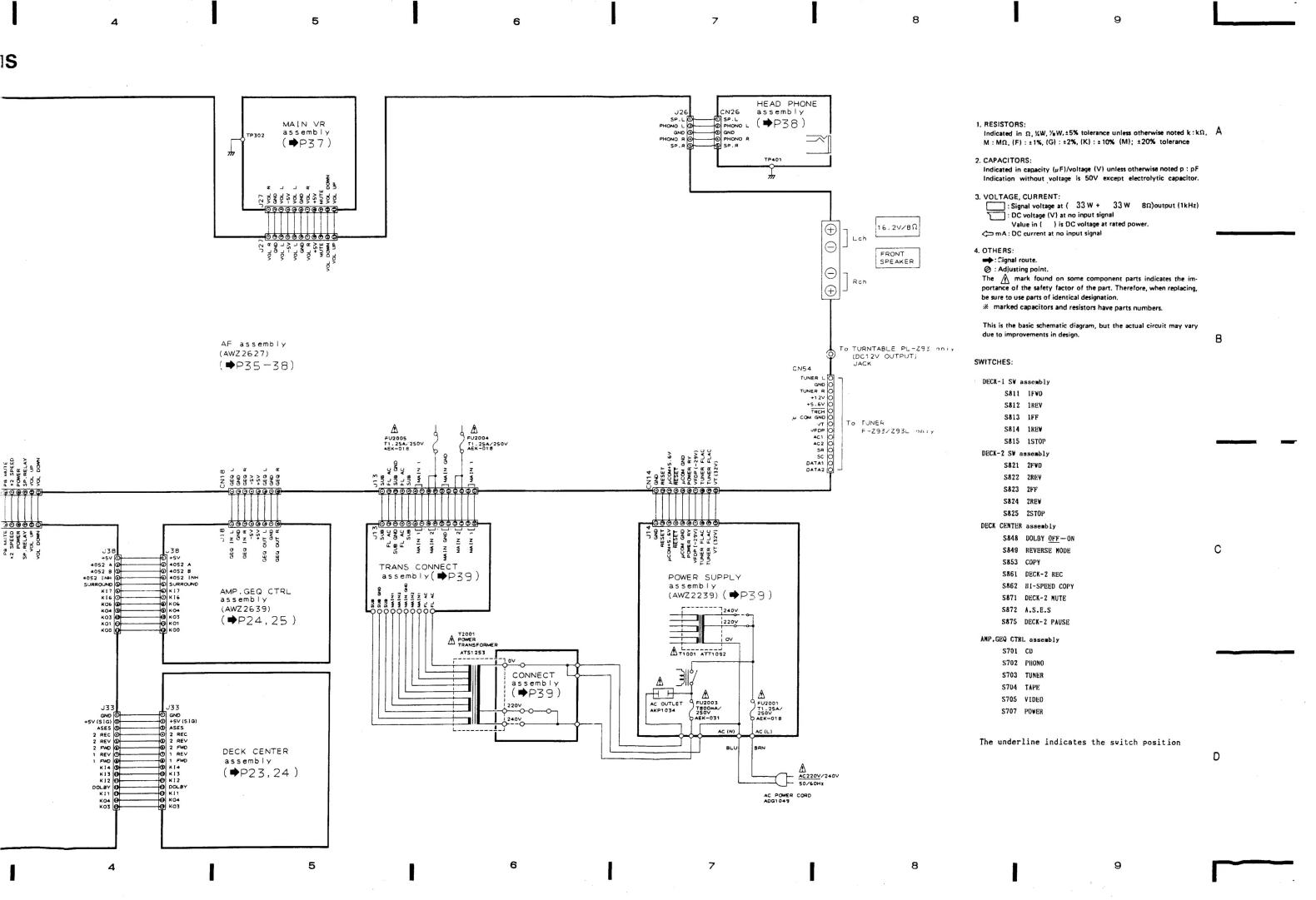
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2. SCHEMATIC DIAGRAMS AND P.C.BOARD CONNECTION DIAGRAMS

2.1 OVER ALL SCHEMATIC DIAGRAM





2

2.2 AMP, GEQ CTRL (AWZ2639), DECK-1 SW, DECK-2 SW, DECK CTRL (AWZ2635), DECK CENTER assembly,

MECHA UNIT (1)(AWY1052) and MECHA UNIT (2)(AWY1053)

3

NOTE

2. The parts which have been mounted on the board can be replaced with those sh

.C.B. pattern diagram indication	Corresponding part symbol	Part Name
EÓ 0 0		Transistor
0 0 0		Radiator type transistor
⊚0203	O 1203	Diode
O-R237	0	Resistor
⊚ ^{C513}	<u>⊶</u> В ⁺ ₀	Capacitor (Polarity)
g C518 g	⊶⊩	Capacitor (Non-polarity)

thers	
P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

- The capactor terminal marked with

 (double circles) shows negatine termianl.
 The diode terminal marked with

 (double circles) shows cathode side.
- The assessment terminal to which E is affixed shows the emitter

AMP, GEQ CTRL assembly (AWZ2639) **DECK CENTER assert** VR727 VR729 VR721 VR723 VR725 10702 9702 9701 10701 IC722 To AF assembly CN18 (To page 33) IC721

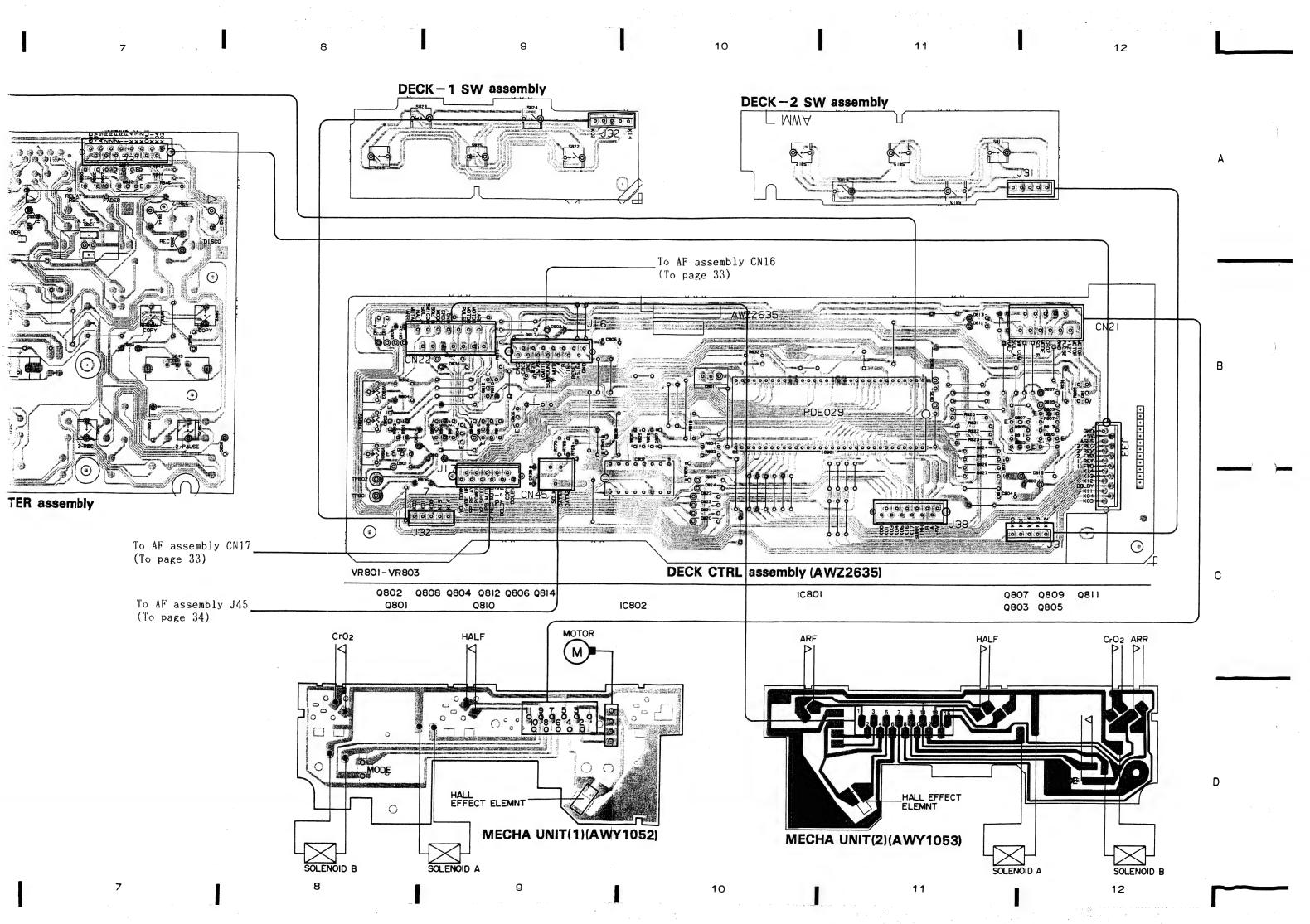
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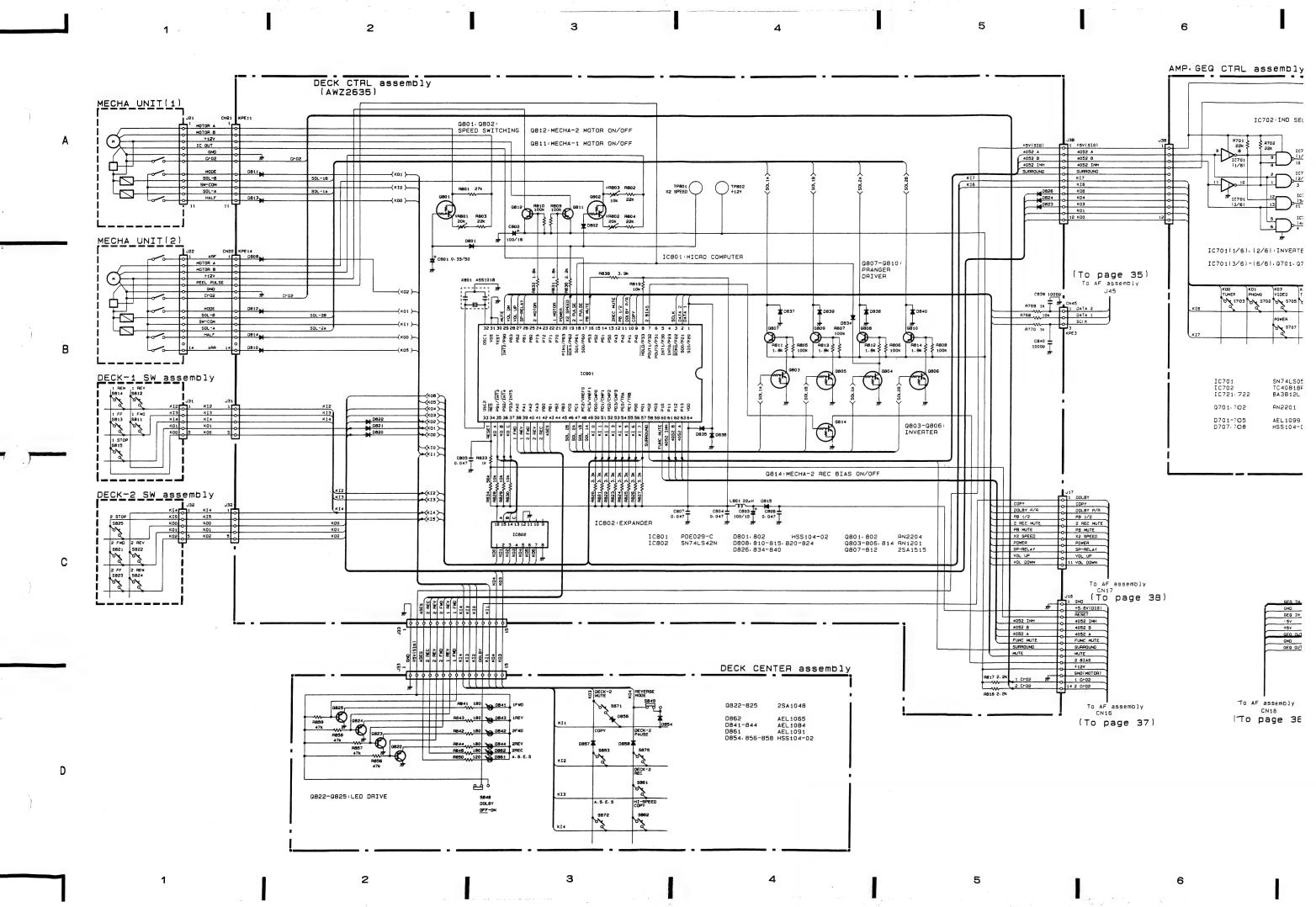
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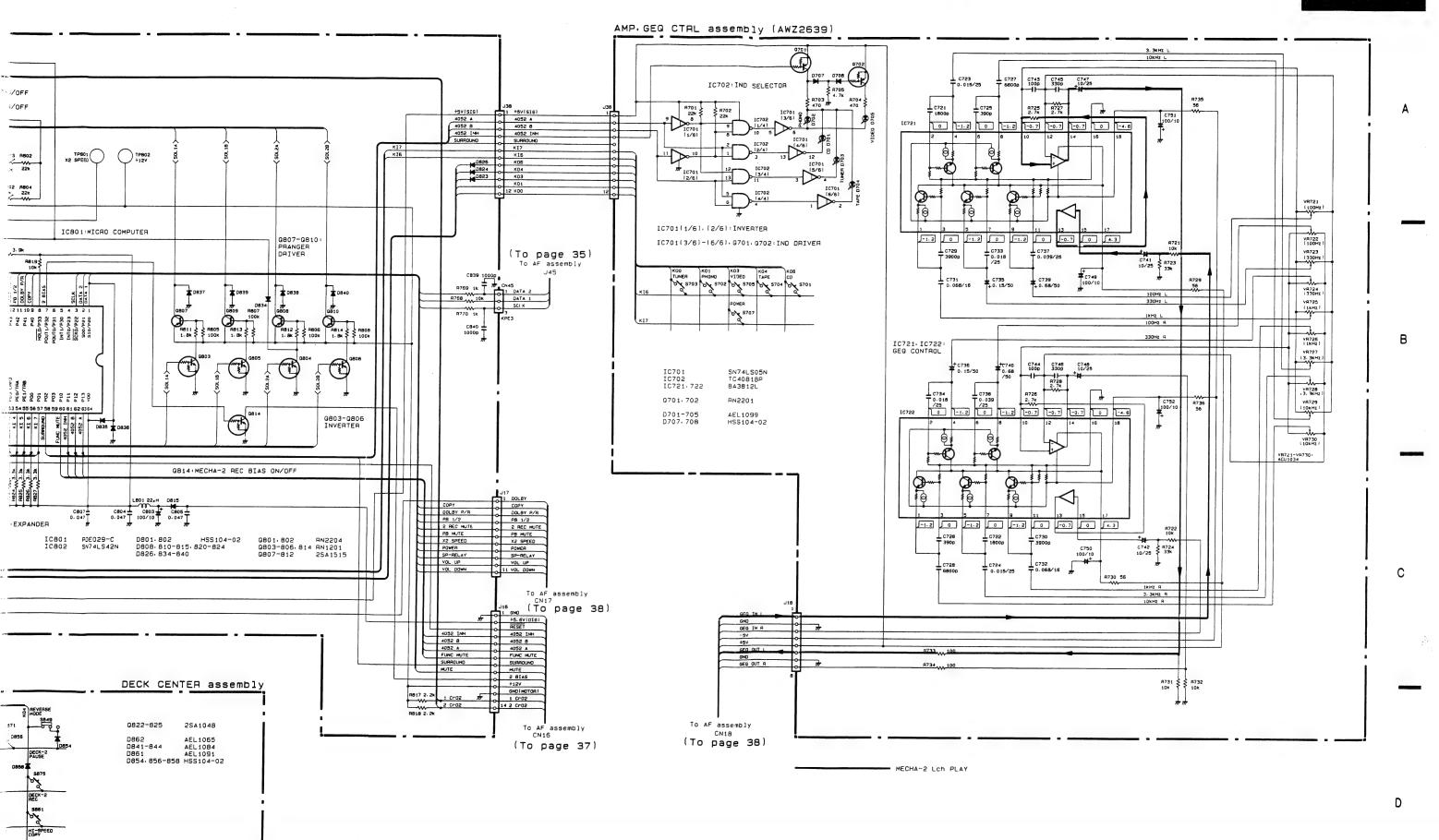
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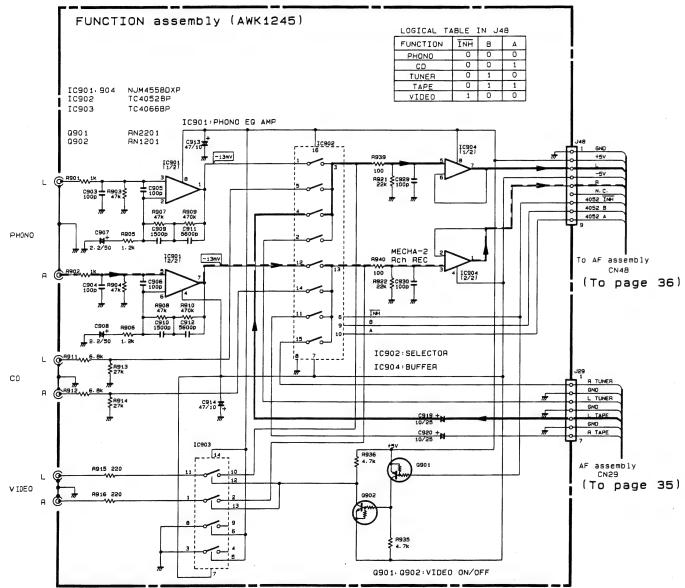




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2.3 FUNCTION assembly (AWK1245)

MECHA-2 Lch PLAY

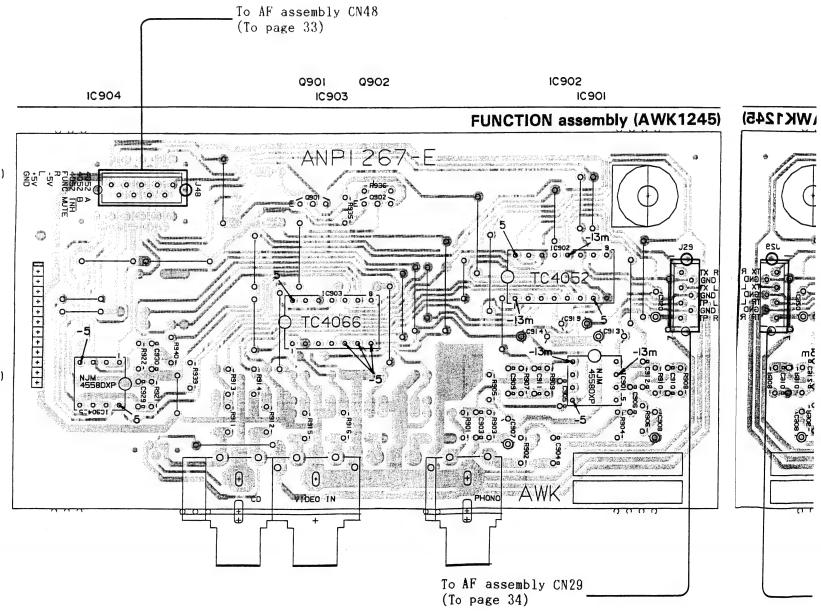


- The parts which have been mounted on the board can be replaced with those show with the corresponding wiring symbols listed in the following Table.

P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
Q504 E0 0 0		Transistor
0 0 0		Radiator type transistor
⊙o.	D203	Diode
O-R237 -O	R237 0	Resistor
© C513	∘ ∄ ⁺∘	Capacitor (Polarity)
J C518 J	⊶⊩	Capacitor (Non-polarity)

Others	
P.C.B. pattern diagram indication	Part Name
IC	IC
s	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

- The diode terminal marked with (a) (double circles) shows cathode side
 The transistor terminal to which E is affixed shows the emitter.



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NOTE:

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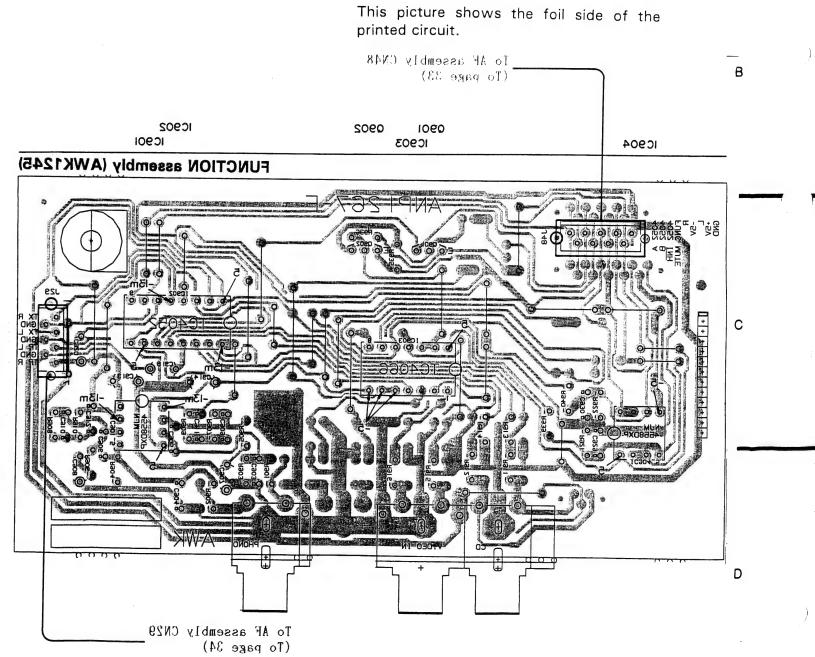
NOTE

- 1. This P.C.B connection diagram is viewed from the parts mounted side.
- The parts which have been mounted on the board can be replaced with those shown

P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
Q504 Eo o o		Transistor
0 0 0		Radiator type transistor
©_0203	O NO.	Diode
O-R237 -O	R237 0	Resistor
© C513	<u>∘ ‡</u> †∘	Capacitor (Polarity)
I CSIE I	41-	Capacitor (Non-polarity)

P.C.B. pattern diagram indication	Part Name
1C	1C
s	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

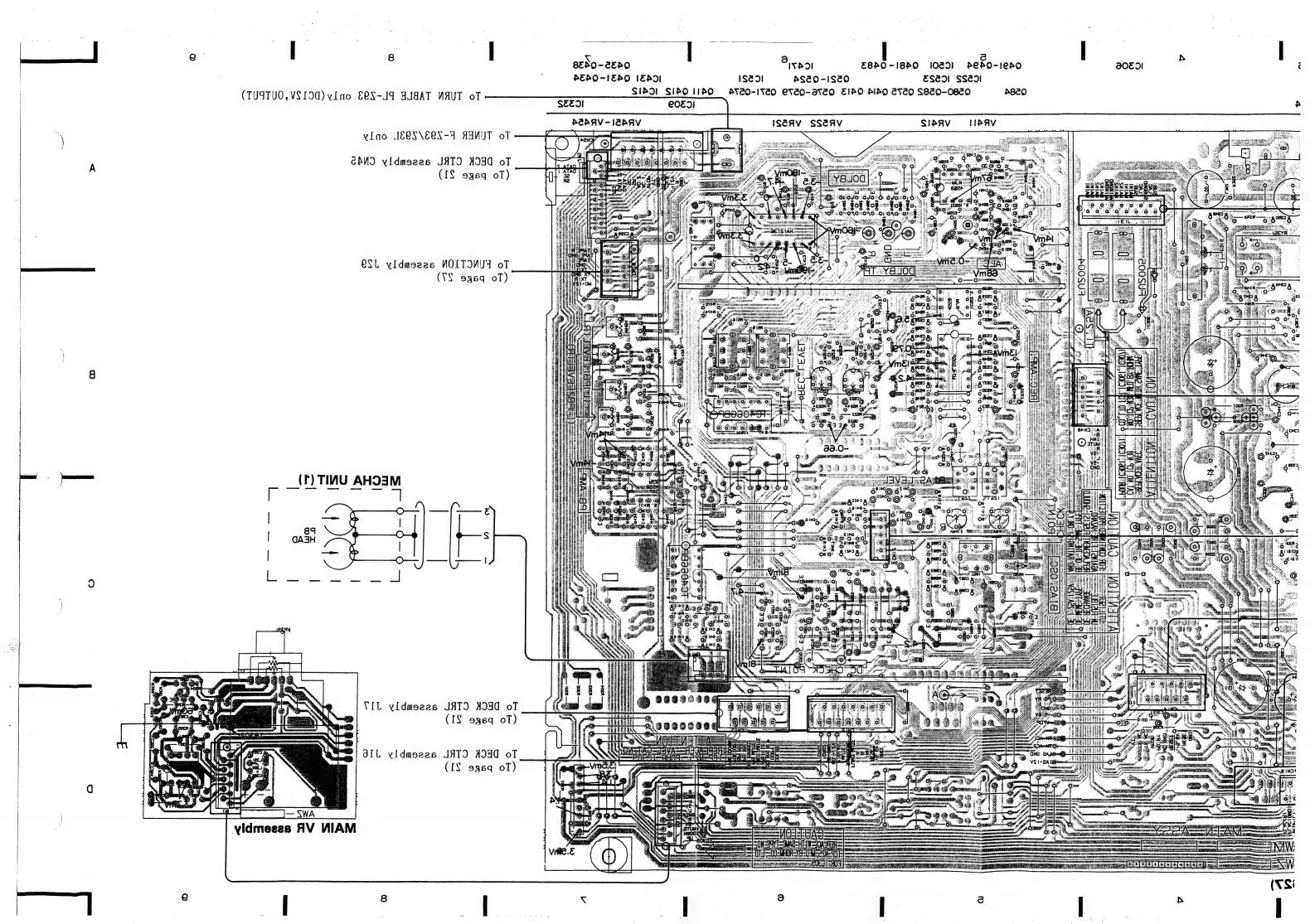
- The capactor terminal marked with @(double circles) shows negatine term
- 4. The diode terminal marked with (a) (double circles) shows cathode side.
- 5. The transistor terminal to which E is affixed shows the emitte

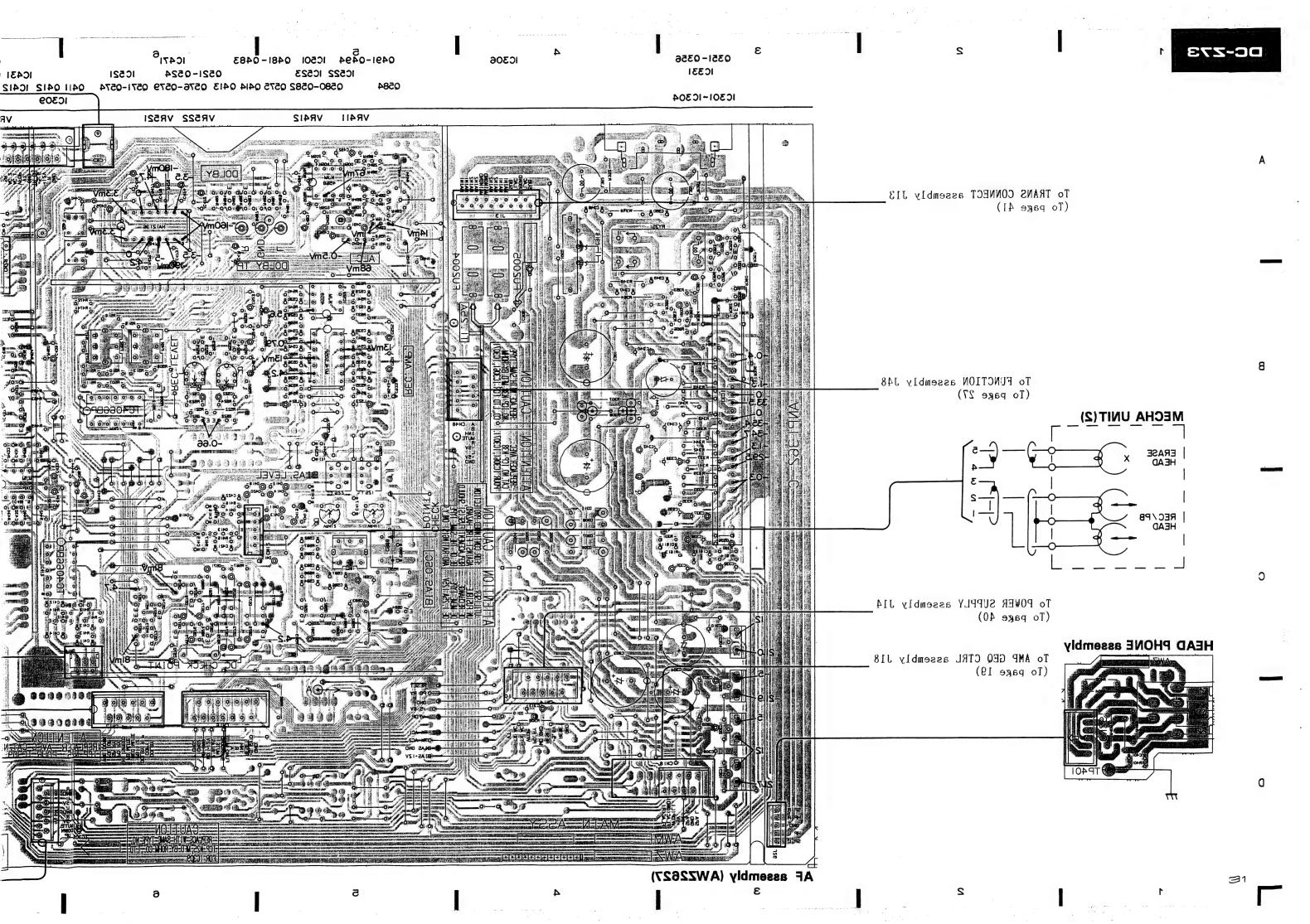


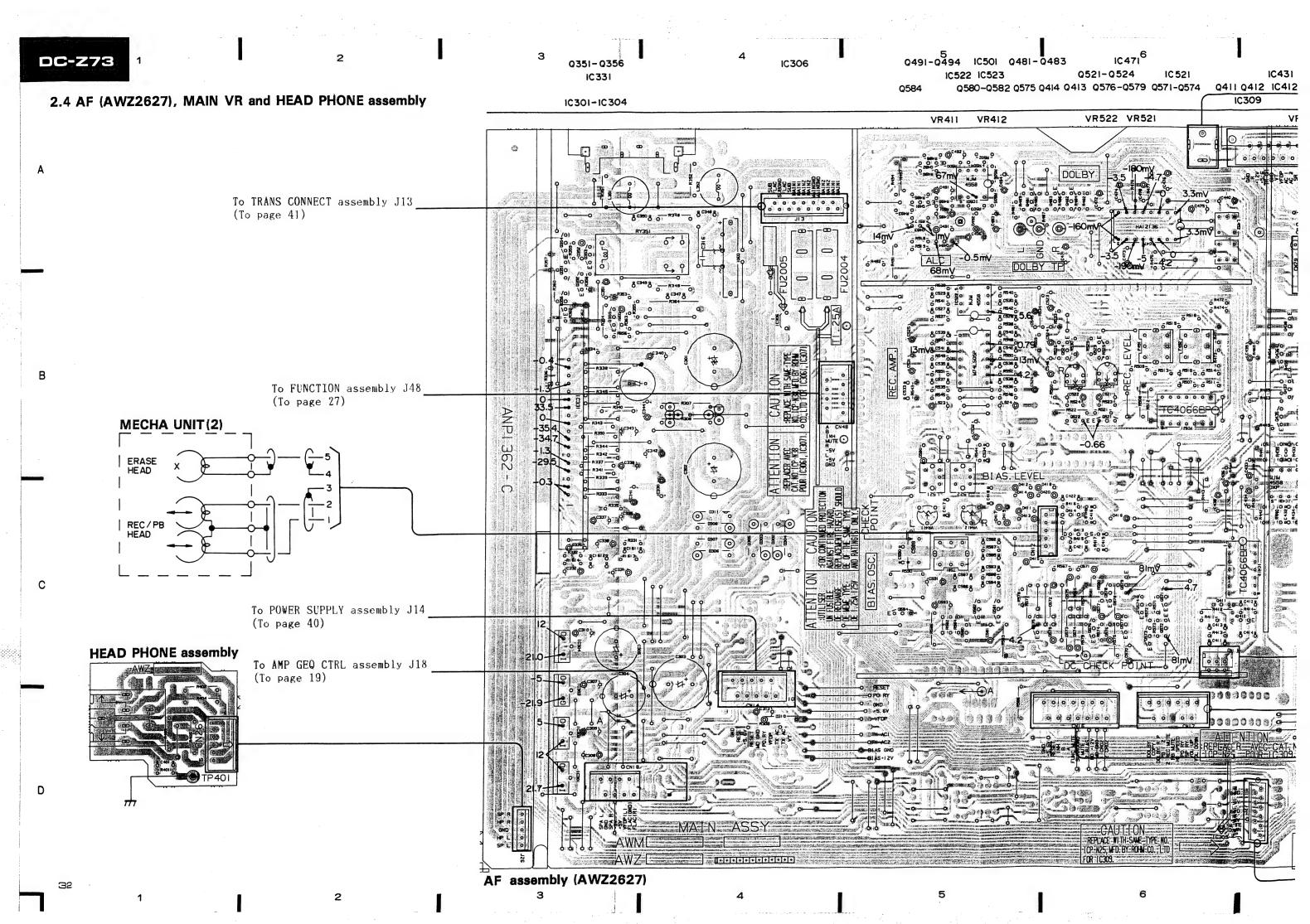
To AF assembly CN48 (To page 33) 10902 1060 Q902 10901 10903 IC904 FUNCTION assembly (AWK1245) To AF assembly CN29 (To page 34)

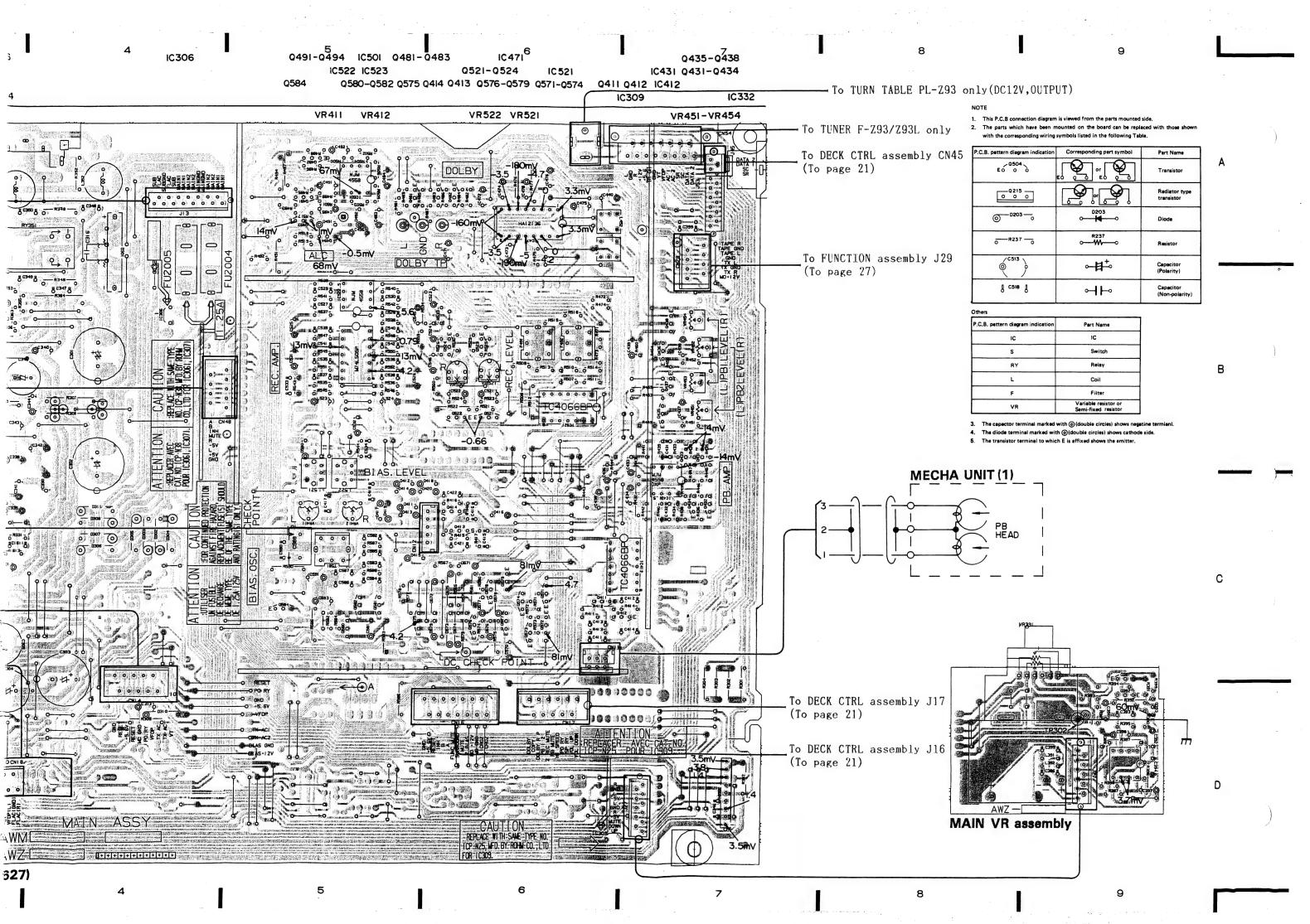
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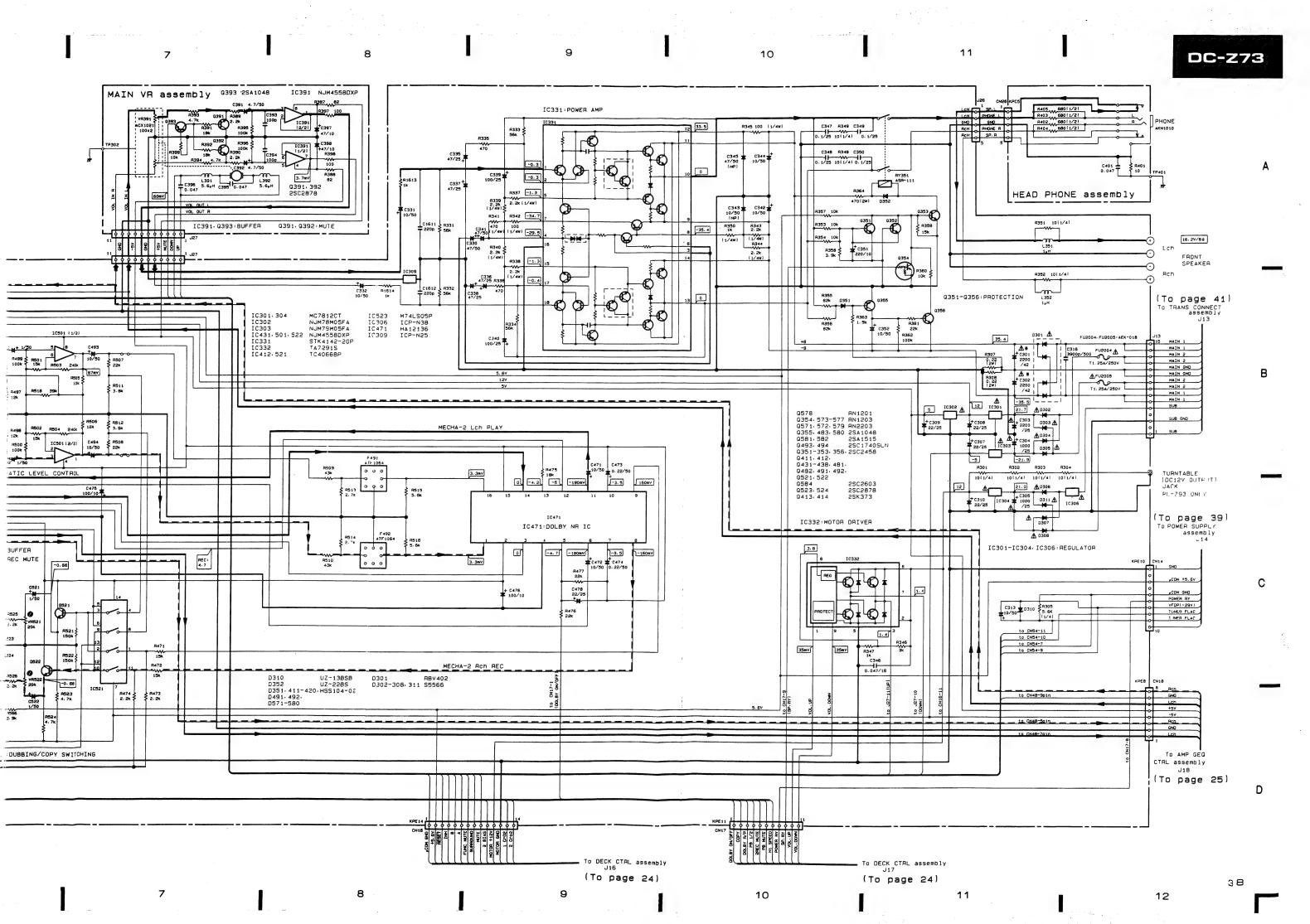


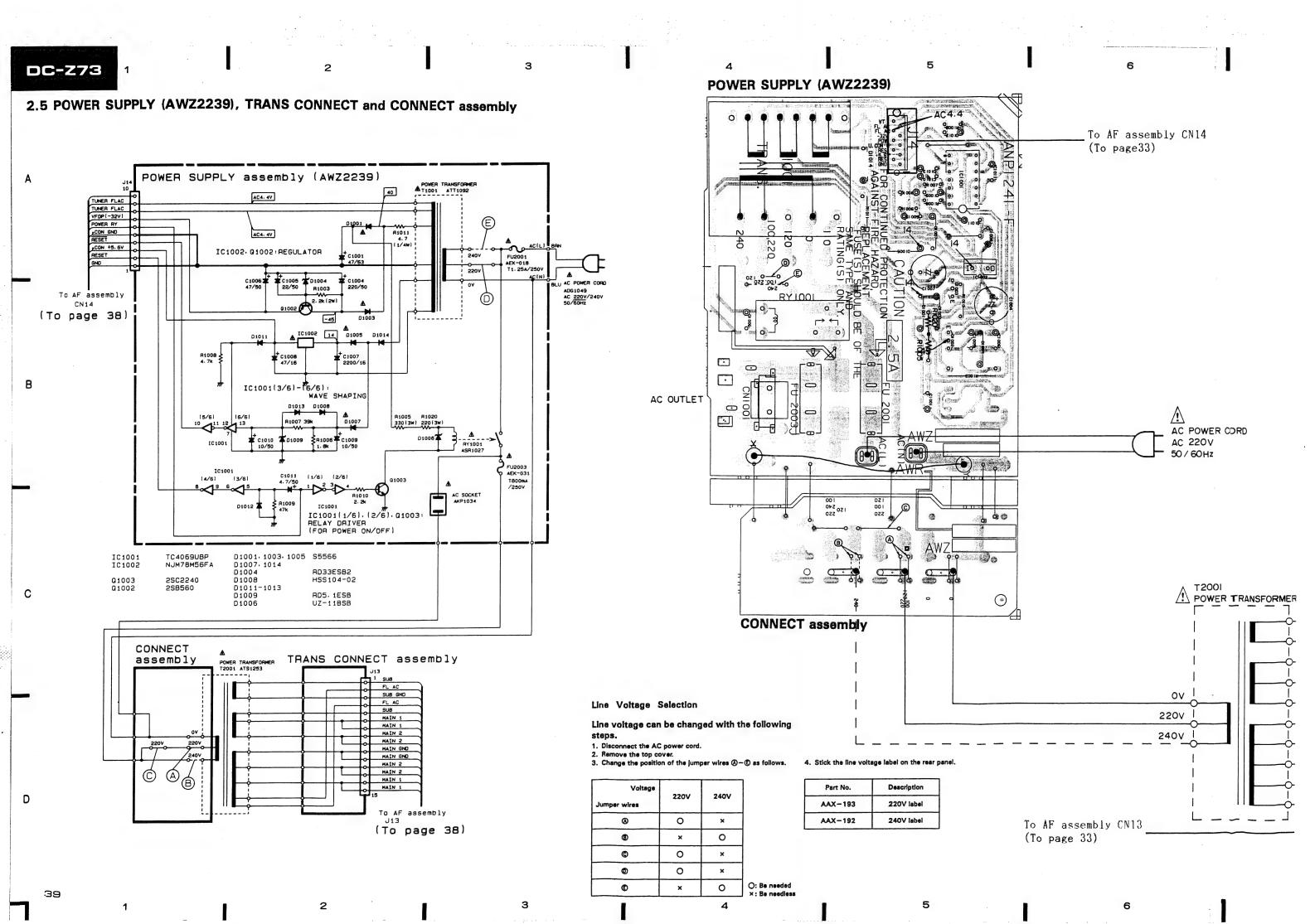


To FUNCTION assembly J48 To DECK CTRL assembly (To page 26) F-Z93/F-Z93L ONLY (To page 24) To TUNER AF assembly (AWZ2627) MECHA-2 Lch PLAY ---- MECHA-2 Rch REC Q481-Q482:PB MUTE Q483:BUFFER MECHA-2 Ron REC MECHA-2 Lch PLAY FUNCTION assembly R443 82 (To page 26) MECHA UNIT(1) Q411. Q412: PEAKING Q413.Q414:REC/PB SWITCHING MECHA UNIT(2) IC501-Q491-Q494: AUTONATIC LEVEL CONTRO IC431-Q431-Q434:PB EQ IC412: MECHA-1/MECHA-2 PB SELECTOR Q435-Q436:282 LEVEL ADJ Q437-Q438:PB MUTE Q521. Q522:8UFFER MECHA-1 PLAY : 1.8mV NORMAL SPEED : 90mV 0523- 0524 REC MUTE Q572-Q573:COPY SWITCHING Q571: DOLBY REC/PLAY SWITCHING NORMAL SPEED: 4. 2V Q581.Q582:BIAS OSC NORMAL SPEED: 0.79V IC522:REC AMP IC523: AEC EQ SWITCHING IC5210 UBBING/COPY SWIT 10 CN17-2 (COPY) to CN17-6 PB MUTE) Q575:x2 SPEED SWITCHING Q584:BIAS LEVEL SWITCHING Q574.Q576-Q579:PB1/PB2 SWITCHING

В

D





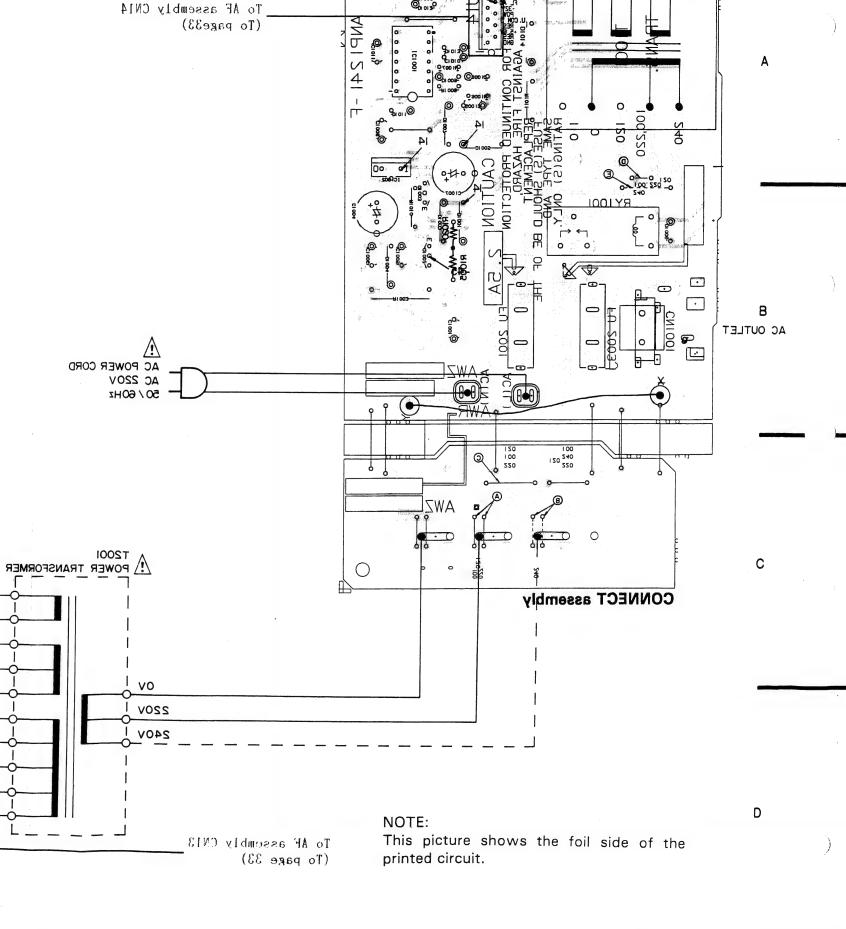
- 1. This P.C.B connection diagram is viewed from the parts mounted side.

P.C.B. pattern diagram indication	Corresponding part symbol	Part Name
2504 Eo o o		Transistor
0 0 0		Radiator type transistor
©_0203_°	0203	Diode
O-R237	R237 0	Resistor
© C513	<u>⊶ Ң</u> ÷	Capacitor (Polarity)
g csia g	→	Capacitor (Non-polarity)

ER CORD

P.C.B. pattern diagram indication	Part Name
IC	IC
S	Switch
RY	Relay
L	Coil
F	Filter
VR	Variable resistor or Semi-fixed resistor

- 3. The capactor terminal marked with @(double circles) show
- 4. The diode terminal marked with @ (double circles) shows cathode side.
- 5. The transistor terminal to which E is affixed shows the emitter



WER TRANSFORMER CO SUB GND

FL AC TRANS CONNECT assembly yidmessa TOBINOO RANT

ONS BUS OND

MAIN 2

GND

MAIN

11

POWER SUPPLY (AWZ2239)

3. P.C.B's PARTS LIST

NOTES

- Parts without part number cannot be supplied.
- Parts marked by "©" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable
- The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.
- When ordering resistors, first convert resistance values into code form as shown in the following examples.
 - Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by $J = \frac{500}{100}$

J /0, unu	K = 10 / 0.		
560Ω	56×10^{1}	561	RD1/4PS 🖸 🛈 🗓 J
$47k\Omega$	47×10^{3}	473	RD1/4PS 4 🗇 🗓 J
0.5Ω	0R5		RN2H 🛈 🗷 🖸 K
$I\Omega$	010		

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
FLINC	TION asse	ombly (AWK1245)			IC309	IC PROTECTOR	ICP-N25
					IC331	AUDIO IC	STK4142-2GP
SEMIC	CONDUCTO	н			IC332	MECHANISM DRIVER	TA7291S
	IC901	OP-AMP IC	NJM4558DXP			IC	
	IC902	LOGIC IC	TC4052BP		IC412	LOGIC IC	TC4066BP
	IC903	LOGIC IC	TC4066BP		IC431	OP-AMP IC	NJM4558DXP
	IC904	OP-AMP IC	NJM4558DXP		10101		
					IC471	DOLBY-B IC	HA12136
	Q901	TRANSISTOR	RN2201		IC501	OP-AMP IC	NJM4558DXP
	Q902	TRANSISTOR	RN1201		IC521	LOGIC IC	TC4066BP
					IC522	OP-AMP IC	NJM4558DXP
CAPA	CITORS				IC523	LOGIC IC	M74LS05P
	0000 000	CERAMIC CAPACITOR	CCCST 101T50				
	C903-906	ELECTR.CAPACITOR	CEAS2R2M50		Q351-353	TRANSISTOR	2SC2458
	C907,908	CERAMIC CAPACITOR			Q354	TRANSISTOR	RN1203
	C909,910	CERAMIC CAPACITOR	CKCYB562K50		Q355	TRANSISTOR	2SA1048
	C911,912	CERAMIC CAPACITOR	CRC 1 D302 R30		Q356	TRANSISTOR	2SC2458
	G010 011	ELECTR.CAPACITOR	CEAS470M10		Q411,412	TRANSISTOR	2SC2458
	C913, 914	ELECTR.CAPACITOR	CEAS100M25				
	C919, 920	CERAMIC CAPACITOR			Q413,414	N-FET	2SI373
	C929, 930	CERAMIC CAPACITOR	CCCSETOTION		Q431-438	TRANSISTOR	2SC2458
DE010	T000				Q481,482	TRANSISTOR	2SC2458
HE515	TORS				Q483	TRANSISTOR	2SA1048
	All resistors		RD1/8PM□□□J		Q491,492	TRANSISTOR	2SC2458
OTHE	RS				Q493,494	TRANSISTOR	2S(1740SLN
		JACK-4P	AKB1009		Q521,522	TRANSISTOR	25(24.58
		(VIDEO,CD)			Q523,524	TRANSISTOR	25(2878
		JACK 2-P (PHONO)	AKB1088		Q571,572	TRANSISTOR	RN203
					Q573-577	TRANSISTOR	RN203
	001/ /414/7	20607\			Q578	TRANSISTOR	RN201
AF A	SSY (AWZ	2027)			Q579	TRANSISTOR	RN203
SEMI	CONDUCTO	RS			Q580	TRANSISTOR	2541048
	IC301	REGURATOR IC	MC7812CT		Q581,582	TRANSISTOR	2SA15 15
	IC301 IC302 IC303	REGULATOR IC REGULATOR IC	NJM78M05FA NJM79M05FA		Q584	TRANSISTOR	2SQ6 O 3
	IC304	REGURATOR IC	MC7812CT		D301	DIODE	RB74 O2
	IC304 IC306	IC PROTECTOR	ICP-N38		D302-308	DIODE	S556
	10300	IC I ROLLOI OR	102 1100		D310	ZENER DIODE	UZ-13BSB
					D311	DIODE	S556
					D351	DIODE	HS/104-02

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	D352	ZENER DIODE	UZ-22BS		C475,476	ELECTR.CAPACITOR	CEAS101M10
	D411-420	DIODE	HSS104-02		C478	ELECTR.CAPACITOR	CEAS220M25
	D491,492	DIODE	HSS104-02		C491,492	ELECTR.CAPACITOR	CEAS010M50
	D571-580	DIODE	HSS104-02		C493,494	ELECTR.CAPACITOR	CEAS100M50
		DIODE	1133104-02		C495	ELECTR.CAPACITOR	CEASTOOMSO CEASR33M50
RELA	Y				CADC	EL DOMD O LD LOIMOD	07101001
	RY351	RELAY	ASR-111		C496 C521 – 524	ELECTR.CAPACITOR ELECTR.CAPACITOR	CEAS100M50 CEAS010M50
COILS	& TRANSF	FORMER			C525,526 C527,528	ELECTR.CAPACITOR AUDIO FILM	CEAS330M16
	F491,492	DOLBY FILTER	ATF1064			CAPACITOR	CFTXA683J50
	* ***	0017 /4 770			C529,530	CERAMIC CAPACITOR	CKCYB182K50
	L351,352	COIL(1µH)	ATH-133				
	L451,452	COIL	ATM1001		C531,532	ELECTR.CAPACITOR	CEAS2R2M50
	L521,522	COIL	ATM-037		C533,534	CERAMIC CAPACITOR	
	L523,524	INDUCTOR (3.9 mH)	LTA392J		C535,536	MYLOR FILM CAPACITOR	CQMA183J50
	T581	OSC TRANSFORMER	ATX-043		C537,538	MYLOR FILM CAPACITOR	CQMA752J50
APA	CITORS				C539,540	CERAMIC CAPACITOR	CKCYB562K50
	C1611,1612	CERAMIC CAPACITOR	CCCSL221150		,		011012001100
	C301,302	ELECTR.CAPACITOR (2200pF/42V)	ACH1109		C541,542	AUDIO FILM CAPACITOR	CFTXA333J50
	C303	ELECTR.CAPACITOR	CEAS222M25		C545,546	ELECTR.CAPACITOR	CEAS470M16
	C304,305	ELECTR.CAPACITOR	CEAS102M25		C570	ELECTR.CAPACITOR	CEAS470M16
	C307-310				C581	ELECTR.CAPACITOR	CEAS470M16
	C307-310	ELECTR.CAPACITOR	CEAS220M25		C582	MYLOR FILM	CQMA103K50
					0002	CAPACITOR	CQMATOSESO
	C313	ELECTR.CAPACITOR	CEAS100M50			CAPACITOR	
	C316	CERAMIC CAPACITOR			0500	157 OD 577 M	
	C330	ELECTR.CAPACITOR	CEAS470M50		C583	MYLOR FILM	CQMA153K50
	C331,332	ELECTR.CAPACITOR	CEAS100M50			CAPACITOR	
	C335	ELECTR.CAPACITOR	CEAS470M25		C584	MYLOR FILM CAPACITOR	CQMA103K50
	C336	ELECTR.CAPACITOR	CEHAQ470M25		C585	MYLOR FILM	CQMA123K250
	C337,338	ELECTR.CAPACITOR	CEAS470M25			CAPACITOR	
	C339,340	ELECTR.CAPACITOR	CEAS101M25		C586	CERAMIC CAPACITOR	CKMYB681K50
	C341	ELECTR.CAPACITOR	CEAS470M50		C587	CERAMIC CAPACITOR	CKMYB221K50
	C342		CEAS100M50				
	C342	ELECTR.CAPACITOR	CEASIOUNIO		C588	CQPA (2000pF/630V)	ACE1020
	0040	DI DOND CADACIMOD	CO AND CONTRA		C590	MYLOR FILM	CQMA562K400
	C343	ELECTR.CAPACITOR	CEANP100M50			CAPACITOR	04112300211300
	C344	ELECTR.CAPACITOR	CEAS100M50		C591	ELECTR.CAPACITOR	CEAS4R7M50
	C345	ELECTR.CAPACITOR	CEANP470M50		C593	ELECTR.CAPACITOR	CEAS101ML6
	C346	CERAMIC CAPACITOR			0330	ELECTR.CAPACITOR	CEASIUIMLO
	C347-350	CERAMIC CAPACITOR	CKCYX104M25	RESIS	TORS		
	C351	ELECTR.CAPACITOR	CEAS221M10		R301-304	CARBON FILM	RD1/4PM10OJ
	C352	ELECTR.CAPACITOR			1.001 002	RESISTOR	KD1/41 W100J
	C399	CERAMIC CAPACITOR			R305	CARBON FILM	DID LADD FERDI
	C411,412	CERAMIC CAPACITOR			KSUS		RD1/4PM56ZJ
					Thorn non	RESISTOR	
	C413,414	CERAMIC CAPACITOR			R307,308	METAL OXIDE RESISTOR	RS2LMFR22J
	C415,416	CERAMIC CAPACITOR			R337-340	CARBON FILM	RD1/4PM222 J
	C417,418	CERAMIC CAPACITOR				RESISTOR	
	C421,422	CERAMIC CAPACITOR			R341	CARBON FILM	RD1/4PMFIA71
	C431,432	MYLOR FILM CAPACITOR	CQMA682J50			RESISTOR	
	C433,434	ELECTR.CAPACITOR	CEAS330M16		R342	CARBON FILM RESISTOR	RD1/4PMFL101J
	C435,436	ELECTR.CAPACITOR	CEAS470M10		R343,344		RD1/4PM222J
	C437,438	ELECTR.CAPACITOR	CEAS010M50		Dave		DD4 1100 550 . 0-1
	C439,440	ELECTR.CAPACITOR	CEAS010M50		R345		RD1/4PMFLL01J
	C471,472	ELECTR.CAPACITOR	CEAS100M50			RESISTOR	
	C473,474	ELECTR.CAPACITOR	CEASR22M50				

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
DECK	CTRL ass	embly (AWZ2635)		AMP,	GEQ CTRL	assembly (AWZ263	9)
SEMIC	CONDUCTO	RS		SEMIC	CONDUCTO	RS	
	IC801		PDE029-C		IC701	LOGIC IC	SN74LS05N
	IC802	LOGIC IC	SN74LS42N		IC702	LOGIC IC	TC4081BP
					IC721,722	AUDIO IC	BA3812L
	Q801,802	TRANSISTOR	RN2204				
	Q803-806	TRANSISTOR TRANSISTOR	RN1201 2SA1515		Q701,702	TRANSISTOR	RN2201
	Q807-812 Q814	TRANSISTOR	RN1201				
	W014	TRANSISTOR	KINIZUI		D701 - 705	LED(RED)	AEL1099
	D801,802	DIODE	HSS104-02		D707,708	DIODE	HSS104-02
	D808	DIODE	HSS104-02				
	D810-815	DIODE	HSS104-02	SWIT	CHES		
	D820-824	DIODE	HSS104-02		S701-705	SWITCH	ASG1034
	D826	DIODE	HSS104-02		S707	SWITCH	ASG1034
	D834-840	DIODE	HSS104-02	CAPA	CITORS		
COIL					C721,722	CERAMIC CAPACITOR	CKCYB182K50
JUIL					C723,724	CERAMIC CAPACITOR	CKCYX153M25
	L801	AXIAL INDUCTOR	LAU220K		C725,726	CERAMIC CAPACITOR	CKCYB391K50
		$(22\mu H)$			C727,728	CERAMIC CAPACITOR	CKCYB682K50
					C729,730	CERAMIC CAPACITOR	CKCYB392K50
CAPA	CITORS						OVE OVERE CONT. ELC
	C801	ELECTR.CAPACITOR	CEASR33M50		C731,732	CERAMIC CAPACITOR	CKCYX683M16
	C802	ELECTR.CAPACITOR	CEAS101M16		C733,734	CERAMIC CAPACITOR	CEJAR15M50
	C803	ELECTR.CAPACITOR	CEAS101M10		C735,736	ELECTR.CAPACITOR CERAMIC CAPACITOR	
	C804-807	CERAMIC CAPACITOR			C737 C738	CERAMIC CAPACITOR	CKDVY303M25
	C839,840	CERAMIC CAPACITOR	CKCYB102K50		C739,740	ELECTR.CAPACITOR	CEJAR68M50
RESIS	TORS				C741	ELECTR.CAPACITOR	CEJA100N25
	VR801,802	VR (20kΩ)	VRTM6H203		C742	ELECTR.CAPACITOR	CEAS100M25
	VR803	VR (10kΩ)	VRTM6H103		C743,744	CERAMIC CAPACITOR	
	Other resist	Own.	DD1/PDM		C745,746	CERAMIC CAPACITOR	CKCYB33LK50
	Other resist	UI 3	RD1/8PM□□□J		C747,748	ELECTR.CAPACITOR	CEAS100M25
OTHE	RS				C749-750	ELECTR.CAPACITOR	CEAS101M 10
	CN21	JUMPER CONNECTOR	KPF11	RESIS	TORS		
		11P		NE313	VR721-730	VP (201-0)	ACU1034
	CN22	JUMPER CONNECTOR 14P	KPE14		VK721-730	VI (JULII)	NC01004
	CN45	JUMPER CONNECTOR 3P	KPE3		Other resisto	ors	RD1/8PM□□□J
	X801	Ceramic resonator	ASS1018	POWI	ER SUPPLY	assembly (AWZ223	9)
				SEMIC	CONDUCTO	RS	
DECK	-1 SW as	sembly			IC1001 IC1002	LOGIC IC REGULATOR IC	TC4069UIP NJM78M5/FA
					Q1002	TRANSISTOR	2SB560
SWIT	HES				Q1003	TRANSISTOR	2SC2240
	S811-815	SWITCH	ASG1034		-		
					D1001	DIODE	S5566
					D1003	DIODE	S5566
					D1004	ZENER DIODE	RD33ESB2
DECK	-2 SW as	ssembly			D1005	DIODE	S5566
SWIT	CHES				D1006	ZENER DIODE	UZ-11BS
	S821-825	SWITCH	ASG1034		D1007	DIODE	S5566
					D1008	DIODE	HSS104-0
					D1009	ZENER DIODE	RD5.1ESB

Mark	No.	Description	Parts No.	Mark	No.	Description	Parts No.
	R348,349	CARBON FILM	RD1/4PM100J	TRAN	S CONNE	CT assembly	
	R350	RESISTOR CARBON FILM RESISTOR	RD1/4PMFL102J	No par	ts are suppllic	ed with the TRANS CONN	ECT assembly.
	R351,352	CARBON FILM RESISTOR	RD1/4PMFL100J		I VR assen	•	
	R364	METAL OXIDE	RS2LMF471J	SEMI	CONDUCTO	RS	
	2.001	RESISTOR			IC391	OP-AMP IC	NJM4558DXP
	R590	CARBON FILM RESISTOR	RD1/2PM150J		Q391,392 Q393	TRANSISTOR TRANSISTOR	2SC2878 2SA1048
	VR411,412	VR (500kΩ)	VRTM6V504				
	VR451,452	VR (100kΩ)	VRTM6H104	COILS			
	VR453,454 VR521,522	VR (20kΩ) VR (22kΩ)	VRTM6H203 ACP1026		L391,392	AXIAL INDUCTOR (5.6μH)	LAU5R6K
	Other resiste	nre.	RD1/8PM□□□J	CAPA	CITORS		
OTHE					C391,392 C393,394 C395,396 C397,398	ELECTR.CAPACITOR CERAMIC CAPACITOR CERAMIC CAPACITOR ELECTR.CAPACITOR	CKCYF473Z50
		TERMINAL 4-P	AKE1012	RESIS	TORS		
		(SPEAKER)			VR391	VR (100kΩ×2)	ACX1021
		JACK (PL DC+12V) Socket 15-P (To TUNER)	AKN-203 AKP1038		Other resistors		RD1/8PM
	CN14	JUMPER CONNECTOR	KPE10				
	CN16	JUMPER CONNECTOR	KPE14		CENTER &	•	
	CN17	JUMPER CONNECTOR	KPE11	Q 2.0Q	Q822-825	TRANSISTOR	2SA1048
	CN18	JUMPER CONNECTOR 8P	KPE8		D841-844	LED	AEL1084
	CN29	JUMPER CONNECTOR	KPE7		D854 D856-858	DIODE DIODE	HSS104 - 02 HSS104 - 02
	CN48	7P JUMPER CONNECTOR 9P	KPE9		D861 D862	LED (RED)	AEL1091 AEL1065
				SWITC	HES		
LIEAE	DUONE -				S848,849	SWITCH	ASH1014
	PHONE a	ssembly			S853 S861,862	SWITCH SWITCH	ASG1034
CAPA	CITOR				S871,872	SWITCH	ASG1034 ASG1034
	C401	CERAMIC CAPACITOR	CKCYF473Z50		S875	SWITCH	ASG1034
RESIS	TORS						
	R401	CARBON FILM RESISTOR	RD1/8PM100J	RESIST			
	R402-405	CARBON FILM RESISTOR	RD1/2PMF681J		All resistors		RD1/8PM□□□J
OTHER	RS						
	CN25	JACK (HEAD PHONE) JUMPER CONNECTOR 5P	AKN1010 KPC5				

Mark	No.	Description	Parts No.
	D1011-1013	DIODE	HSS104-02
	D1014	DIODE	S5566
RELA'	Y		
\triangle	RY1001	RELAY	ASR1027
TRAN	SFORMER		
Δ	T1001	POWER TRANSFORMER	ATT1092
CAPA	CITORS		
	C1001	ELECTR.CAPACITOR	CEAS470M63
	C1004	ELECTR.CAPACITOR	CEAS221M50
	C1005	ELECTR.CAPACITOR	CEHAQ220M50
	C1006	ELECTR.CAPACITOR	CEAS470M50
	C1007	ELECTR.CAPACITOR	CEAS222M16
	C1008	ELECTR.CAPACITOR	
	C1009,1010	ELECTR.CAPACITOR	CEAS100M50
	C1011	ELECTR.CAPACITOR	CEAS4R7M50
RESIS	STORS		
	R1003	METAL OXIDE	RS2LMF222J
		RESISTOR	
	R1005	METAL OXIDE	RS3PMF331J
		RESISTOR	
	R1011	CARBON FILM	RD1/4PMFL4R7J
		RESISTOR	
	R1020	METAL OXIDE RESISTOR	RS3PMF221J
	Other resisto	ors	RD1/8PM
OTHE	RS		
À		AC SOCKET 1-P	AKP1034

CONNECT assembly

No parts are supplied with the CONNECT assembly.

4. ADJUSTMENTS

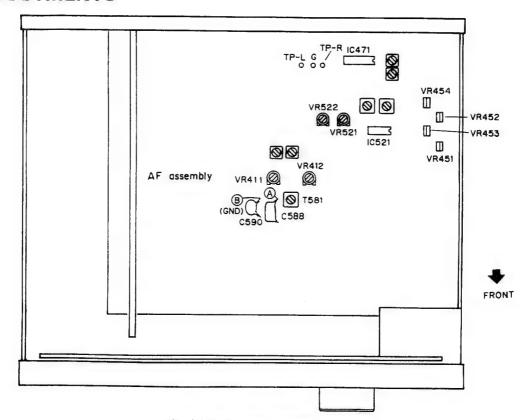


Fig 4.1. Adjustment location

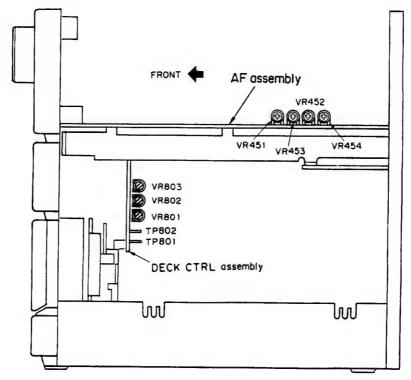


Fig 4.2. Adjustment location

- Adjustment and measurement are usually made in the AF assembly, unless specified otherwise.
- Set the graphic equalizer to FLAT. Depending on the country of destination, the unit may be equipped with a MIC mixing volume control.
 - If a MIC mixing volume control is built in, please set to the MIN position.
- The function should always be set to "TAPE" unless otherwise specified.

Adjustment of Mechanical System

- Test tape: STD-301 (3 kHz, 30 min)
- Setting of double speed mode: Short-circuit TP801 and TP802 of the DECK CTRL assembly. To release the mode, break the short circuit.

1. A	djustment of t	ape speed					
No.	Mode	Input signal & Test tape	Adjustment location		Measuring location	Adjustment value	Remarks
1	PLAY		Deck I	DECK CTRL Assembly VR801	TP-L	Press the PLAY SW and adjust the frequency to 3010 Hz ± 10 Hz. Make sure that the wow and flutter is within 0.2 %.	
2	PLAY (Double speed mode)	Playback the STD-	Deck I		(Lch)	Press the PLAY SW in double speed mode and confirm that the frequency is 6000 Hz ±1000 Hz. Note down the figure.	Release the double speed mode after adjustment.
3	PLAY (Double speed mode)	301 tape to 3 kHz.	De ele II	DECK CTRL Assembly VR803	TP-R	Press the PLAY SW in double speed mode and adjust the frequency to be within ± 30 Hz of the figure recorded at step No. 2.	Release the double speed mode after adjustment.
4	PLAY		Deck II	DECK CTRL Assembly VR802	(Rch)	Press the PLAY SW and adjust the frequency to 3010 Hz ±10 Hz. Make sure that the wow and flutter is within 0.2 %.	

Adjustment of Electric System

■ Check and conduct the following before adjusting the electric system.

- 1. Adjustment of tape speed has been completed.
- 2. Clean and demagnetize the head using a head eraser.
- 3. When measured, the level should be 0 dBV = 1 Vrms.
- Use side A of the specified tape for adjustment. STD-331B: For adjustment of playback system. STD-630: NORMAL blank tape
- Prepare the following measuring devices:
 AC millivoltmeter, Low-frequency oscillator,
 Attenuator, Oscilloscope
- Adjust both L and R channels, unless specified otherwise.
- 7. Set the DOLBY NR switches to OFF, unless specified otherwise.
- 8. Warm up the unit for several minutes before adjustment. Especially before adjusting the frequency characteristics of recording and playback, warm up for 3 to 5 minutes in REC/PLAY mode.
- 9. Make sure to follow the proper order of the adjustment procedure. Any change in the order may cause an imperfect result.

List of Adjustment Deck I

- 1. Head azimuth adjustment
- 2. Playback level adjustment

Deck II

- 1. Head azimuth adjustment
- 2. Playback level adjustment
- 3. Bias oscillation frequency adjustment
- 4. Recording level adjustment
- Adjustment frequency characteristics of recording / playback

Checking of Deck II

1. Make sure the ALC is operating properly.

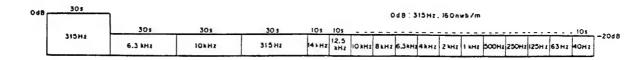
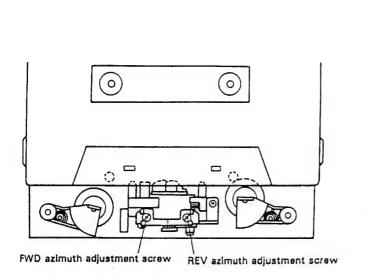


Fig. 4.3 Test tape STD-331B



PLAY BACK

250

3dB

3dB

4dB

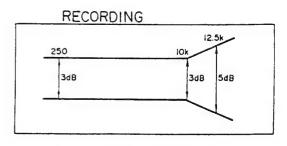


Fig. 4.4 Head azimath adjustment

Fig. 4.5 Frequency characteristics

Head Adjustment of Deck I

- Deck I is provided with an automatic tape selector mechanism.
- Note: Do not switch over FWD and REV while the driver is inserted.

1. Head Azlmuth Adjustment

Pro- cedure	Tape selector	Mode	Input signal/test tape	Adjustment location	Measuring location	Adjustment value	Remarks
1	NORM	PLAY	Playback the test tape STD-331B (10 kHz, -20 dB).	Head azimuth adjustment screw (Fig. 4-4)	TP-L (Lch) TP-R (Rch)	Maximum playback signal level	Lock the screw with screw lock after completing adjustment.

2. Playback Level Adjustment

• Be sure to make a careful adjustment, as the adjustment determines the DOLBY NR level for playback.

Pro- cedure	Tape selector	Mode	Input signal/test tape	Adjustment location	Measuring location	Adjustment value	Remarks
1	NORM	PLAY	Playback the test tape STD-331B (315 Hz, 0 dB).	VR453 (Lch) VR454 (Rch)	TP-L (Lch) TP-R (Rch)	−6.7 dBV	

Head Adjustment of Deck II

- Deck II is provided with an automatic tape selector mechanism.
- · Note: Do not switch over FWD and REV while the driver is inserted.

1. Head Azimuth Adjustment

Pro- cedure	Tape selector	Mode	Input signal/test tape	Adjustment location	Measuring location	Adjustment value	Remarks
1	NORM	PLAY	Playback the test tape STD-331B (10 kHz, -20 dB).	Head azimuth adjustment screw (Fig. 4-4)	TP-L (Lch) TP-R (Rch)	Maximum playback signal level	Lock the screw with screw lock after completing adjustment.

2. Playback Level Adjustment

· Be sure to make a careful adjustment, as the adjustment determines the DOLBY NR level for playback.

Pro- cedure	Tape selector	Mode	Input signal/test tape	Adjustment location	Measuring location	Adjustment value	Remarks
1	NORM	PLAY	Playback the test tape STD-331B (315 Hz, 0 dB).	VR451 (Lch) VR452 (Rch)	TP-L (Lch) TP-R (Rch)	-6.7 dBV	

3. Bias oscillation frequency adjustment

Pro- cedure	Tape selector	Mode	Input signal/test tape	Adjustment location	Measuring location	Adjustment value	Remarks
1	NORM	REC	Load the test tape STD-630 and set to record mode.		Area between (A and (B) (AF Assembly) shown in Fig. 4-1.	The oscillation frequency is 105 kHz ±1 kHz.	

4. Recording Level Adjustment

Pro- cedure	Tape selector	Mode	Input signal/test tape	Adjustment location	Measuring location	Adjustment value	Remarks
1	NORM	REC	Apply a signal of 315 Hz to the CD input terminal and set the function to "CD".	Input signal level	TP-L (Lch) TP-R (Rch)	-7.7 dBV	
2	NORM	REC/ PLAY	Record and playback the test tape STD-630 (315 Hz).	VR521 (Lch) VR522 (Rch)	TP-L (Lch) TP-R (Rch)	Repeat the recording and correction so that the playback level of 315 Hz is -6.7 dBV.	

5. Adjustment of frequency characteristics of recording/playback

• As this procedure is for adjustment of the recording bias, be careful not to increase the distortion rate by under-adjusting the bias.

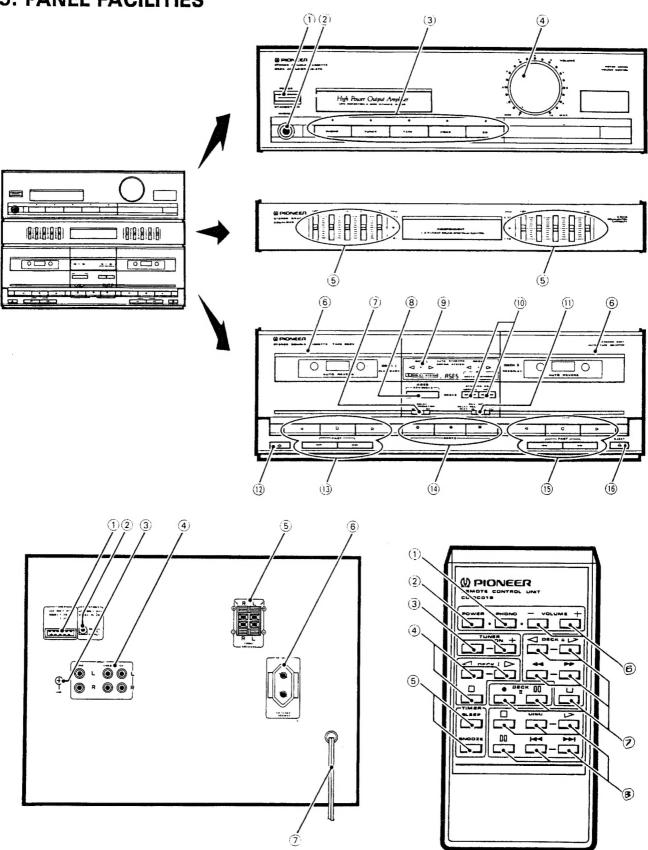
Pro- cedure	Tape selector	Mode	Input signal/test tape	Adjustment location	Measuring location	Adjustment value	Remarks
1	NORM	REC	Apply a signal of 315 Hz to the CD input terminal and set the function to "CD".	Input signal level	TP-L (Lch) TP-R (Rch)	-27.7 dBV	
2	NORM	REC/ PLAY	Record and playback the test tape STD-630 (315 Hz and 10 kHz).	VR411 (Lch) VR412 (Rch)	TP-L (Lch) TP-R (Rch)	Repeat the correction so that the playback level 10 kHz remains 0 ±0.5 dB in relation to 3 15 Hz	

• Checking Procedure for Deck II

1. Action of ALC

Pro- cedure	Tape selector	Mode	Input signal/test tape	Adjustment location	Measuring location	Checking value	Remaiks
1			Apply a signal of 315 Hz Input signal level			-7.7 dBV	
2	NORM	REC	to the CD input terminal and set the function to "CD".		TP-L (Lch) TP-R (Rch)	-2.7 dBV ±2.5 dB	

5. PANEL FACILITIES



REAR PANEL FACILITIES

1 TUNER jacks

Connect the tuner cord here.

2 TURNTABLE (DC 12 V OUTPUT) jack

This jack supplies power to the turntable (PL-Z93).

(3) Ground terminal (GND)

Connect this to the ground terminal on the turntable (except for PL-Z93). Loosen screw with Phillips head screwdriver, connect, and tighten screw.

(4) INPUT jacks

PHONO: Connect the output cord of the turntable to these jacks. VIDEO: Connect to audio output jacks of LD player or VCR, etc.

Connect to output jacks of a CD player.

(5) SPEAKERS terminals

L: Connect the left speaker system as seen from the listening position. R: Connect the right speaker system as seen from the listening position.

NOTE:

Connect a speaker system having a nominal impedance ranging from 6 Ω to 16 Ω.

(6) AC OUTLET (SWITCHED 100 W MAX)

Power supplied through this outlet is turned on and off by the cassette tape deck amplifier's POWER switch. Total electrical power consumption of connected equipment should not exceed 100 W.

Do not connect appliances with high power consumption such as heaters, irons, or television sets to the AC OUTLET in order to avoid overheating or fire risk.

This can cause the cassette tape deck amplifier to malfunction.

(7) Power cord

Connect this to the AC wall socket.

FRONT PANEL FACILITIES

- Tapes can be played back on deck i; tapes can be played back and recorded on deck II.
- · Sound can be recorded as adjusted by the graphic equalizer.

▲ Amplifier section/Graphic equalizer section

1) POWER STANDBY/ON switch

This is the switch for electric power.

ON:

When set to the ON position, power is supplied and the

unit becomes operational.

STANDBY: When set to the STANDBY position, the main power flow is cut and the unit is no longer fully operational. A minute

flow of power feeds the unit to maintain operation

readiness.

(The tuner display shows only the time.)

2 PHONES (Headphones) jack

For stereo headphones.

There is no output from the speakers when headphones are plugged into PHONES jack.

(3) Input selector switches/indicators

[PHONO]

Press to play records on a turntable connected to the PHONO jacks. [TUNER]

Press to listen to radio broadcast.

[TAPE]

Press to listen to cassette tape.

(VIDEO)

Press to listen to stereo component connected to the VIDEO jacks.

Press to listen to a CD player connected to the CD jacks.

4 VOLUME control

5 Graphic equalizer controls

Fine adjustment in sound quality are possible using the 5 controls on the graphic equalizer.

Cassette Tape Deck Section

⑥ Cassette door

7 DOLBY* NR switch

Set this switch to the ON position to activate the DOLBY NR system.

- · Tapes recorded using Dolby noise reduction should always be played back with the noise reduction system on. Sound quality will be adversely affected if played back with the system off, or if tapes recorded using a different noise reduction system are played back with the Dolby NR system on.
- It is recommended that tapes recorded with Dolby Btype NR be so marked on the label. This will help prevent incorrect setting of the noise reduction switch during playback.

Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.

"DOLBY" and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Used for automatically recording a CD on cassette tape.

9 Operation indicators

ASES:

HIGH:

Lights when the A.S.E.S. (Auto Synichro Editing

System) is operating.

DECK II RECORDING: Lights when recording. Flashes when copying

a tape.

Slow flashing = Normal copy Rapid flashing = High speed copy

Direction (<, ▷): Show direction of tape travel.

10 SYNCHRO COPY switches

Used for tape copying.

NORMAL: Copying from the Deck I tape to the Deck II tape at normal

recording/playback speed.

Copying at about twice normal tape speed. (to pies can be

made in about half the NORMAL time.)

11 REV (REVERSE) MODE switch

Switch position	During playback	During recording
RELAY REC PLAY	Plays both tape sides. When one deck finishes playback, the other deck begins playback of both tape sides for 6 times. If there is a tape in only one deck, then that deck continuously plays both sides of the tape for 6 times.	Records on one side (Deck II only).
REC PLAY	Plays both tape sides for 6 times.	Records on both sides (Deck II only).

12 Deck | EJECT switch

(13) Deck I Operation switches

PLAY: FWD) ... For playing back a tape in the forward mode.
 PLAY: REV) ... For playing back a tape in the reverse mode.
 ISTOP) For stopping the tape.
 FAST) Fast forward in forward mode, rewind in reverse mode.
 IFAST) Rewind in forward mode, fast forward in reverse mode.

(4) DECK II switches

MUTE (0)	Used for creating a blank space between songs.
	The unrecorded space is created for as long as this switch is kept depressed during recording.
	switch is kept depressed during recording.
REC (●)	To set to recording standby mode. Recording
	begins when you press the PLAY switch (\lhd or
	▷).
PAUSE ([][])	Temporarily stops tape travel. Cancels pause
	mode when pressed again or press the PLAY switch.

(5) Deck II Operation switches:

Same as Deck I operation switches 13.

16 Deck II EJECT switch

Remote control unit

1) PHONO kev

Sets function to PHONO.

2 POWER key

3 TUNER STATION keys

 Before operation, memorize broadcast stations in the STATION CALL switches.

+	• • • • • • • • • • • • • • • • • • • •	Stations	change ir	or	der in t	he	upwa	ard direction
-		Stations	change	in	order	in	the	downward
		direction						

4 Deck I operation keys

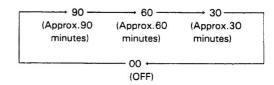
\triangleright	 Forward pla
Ø	 Reverse play
П	 Stop

5 Timer operation keys

SLEEP

Sets the sleep timer. Each time you press this key, the setting changes as shown here. The current setting is shown on the tuner display.

Power turns off when your set time has elapsed.



If you press the SLEEP key during SLEEP operation, the display will show the time remaining till power turns off.

SNOOZE:

Turns off power if pressed after timer playback begins. Timer playback begins again approx. 5 minutes later.

6 VOLUME + (UP)/- (DOWN) keys

When pressed, VOLUME on the amplifier is actually moved by a motor.

7 Deck II operation keys:

Same as Deck I operation switches (13) plus DECK II switches (15).

® CD operation keys

Perform the connections so that the CD player is operated by the remote control unit.

>	Play
DISC	DISC selection
	Stop
00	Pause
 ←←, ▶▶	Track search

NOTE:

Note that the DISC selector key on the remote control unit may not operate, depending on the CD player used.

The amplifier input selector automatically switches to the music-source being operated when you press the CD playback (\triangleright), cassete tape deck playback (\triangleleft , \triangleright), or tuner station controls.

NOTE:

It is not possible to operate the CD player with the remote control unless the remote control cord is connected

Range of remote control

When the remote control unit is pointed at the remote sensor window on the tuner and any of its keys is pressed, the tuner and other components can be operated by remote control.

Distance: Within a range of approx. 7 meters from the remote $s_\theta \text{-nsor}$ window on the tuner.

Angle: Within approx. 30 degrees from the center of the remote sensor window on the tuner.

Remote control will not be possible if there is an obstacle between the remote control unit itself and the remote sensor window o_{\parallel} the tuner.

Performance of the remote control unit is adversely affected ir the presence of strong fluorescent light. Keep such lights away, spe $_{i\bar{i}}$ ally from the sensor window.

6. SPECIFICATIONS

Cassette	tape	deck	amplifier:	DC-2/3
Amplifier	Secti	ion		

Amplitier Section
$ \begin{array}{llllllllllllllllllllllllllllllllllll$
Graphic equalizer frequency band
Hum and Noise (DIN, continuous Power/50 mW) PHONO
Total Harmonic Distortion (40 Hz to 20,000 Hz, 15 W, 8 ohms)** No more than 0.2 %
Tape Deck Section
Systems 4 track, 2-channel stereo Heads Recording/playback head x 1 Playback head x 1 Erasing head x 1
Motor DC servo 2 speed motor x 2
Wow and Flutter No more than 0.09 % (WRMS)
Fast Winding Time
Frequency Response (- 20 dB recording):
Normal tape
CrO_2 tape
Signal-to-Noise ratio
Dolby NR OFF
Noise Reduction Effect Dolby B type NR ON
Furnished Parts
Operating Instructions
Remote control unit 1
Dry cell batteries
Miscellaneous
Power requirements
Dimensions
Weight (without package) 8.3 kg
Acceptant
Accessories

Specifications and design subject to possible modification without notice due to improvement.

EP Adaptor...... 1

^{**} Measured By Audio Spectrum Analyzer.